APPENDIX D SIMULATION MODELING

This appendix describes the methodology, input data, review process, and results of airfield and airspace simulations for this O'Hare Modernization Environmental Impact Statement (EIS) that were conducted using the Total Airspace & Airport Modeller (TAAM). These simulations were conducted by the City of Chicago's Consultant Team (CCT) with direction, oversight, review, and approval by the FAA and FAA's Third Party Contractor (TPC). TAAM simulation experiments were conducted for scenarios including: Alternative A - No Action, Alternative C, D, and G. See **Chapter 3**, **Alternatives**, for further description of the alternatives.

D.1 INTRODUCTION

D.1.1 Appendix Organization

The appendix consists of six sections as follow:

- **Section D.1** describes the organization of this appendix.
- **Section D.2** describes the goals and objectives of the TAAM analysis and summarizes the modeling methodology used in the study.
- Section D.3 describes the "experimental design" that was established for the TAAM
 analysis. This experimental design includes the airfield configurations, runway
 operating configurations, weather conditions, and aircraft operations levels that were
 simulated using TAAM.
- Section D.4 describes the types of input data that were used in the TAAM analysis and
 provides references to reports produced by the CCT where detailed descriptions of these
 input data are provided.
- Section D.5 describes the process by which EIS TAAM simulations were reviewed and concurred with by the TPC and FAA. Section D.5 also provides the chronology of FAA Air Traffic Working Group meetings that were held between October 2003 and July 2004 to review TAAM input data and results. It also summarizes the findings and recommendations that arose out of these meetings, which involved representatives from the TPC, FAA Chicago Area Modernization Program Office (CAMPO), FAA Chicago Airports District Office (CHI-ADO), the Chicago O'Hare Airport Traffic Control Tower (ORD Tower), the Chicago O'Hare Terminal Radar Approach Control Facility (C90), and Chicago Air Route Traffic Control Center (ZAU).
- Section D.6 summarizes TAAM simulation results produced in the analysis.
- Section D.7 summarizes delay estimates for the non-modeled EIS alternatives.
- Section D.8 presents a delay comparison of various Build Alternatives.

D.1.2 Airfield Alternative Naming Conventions

The TAAM analysis began before a consistent naming convention was established for the EIS alternatives. As a consequence, different alternative naming conventions were used in TAAM documentation produced by the FAA, TPC, and CCT between August 2003 and August 2004. **Table D-1** summarizes the equivalencies between the alternative naming conventions used in TAAM analysis documentation and the alternative naming conventions used throughout the EIS.

TABLE D-1
AIRFIELD ALTERNATIVE NAMING CONVENTIONS

EIS naming convention	TAAM analysis naming convention
Alternative A (No Action)	No Action
Alternative C	With Project
Alternative D	Alternative X
Alternative G	Alternative Y

The EIS naming convention is used throughout the remainder of this report except in cases where specific TAAM analysis source documentation, which uses the TAAM analysis naming convention, is cited. In cases where TAAM analysis naming conventions are used, EIS naming conventions are included parenthetically to prevent potential confusion.

D.2 SIMULATION ANALYSIS OBJECTIVES AND METHODOLOGY

D.2.1 Simulation Analysis Objectives

The airfield and airspace improvements proposed in the Sponsor's proposed O'Hare Modernization Program, as well as other potential alternative airfield development concepts, would result in a series of complex changes in the way aircraft use airspace routes, runways, taxiways, and terminal facilities. Because of the complex, multifaceted nature of these changes, it was determined that an airfield/airspace simulation model would be used to do the following:

- Determine the nature and magnitude of the capacity and delay issues associated with the existing O'Hare airfield and airspace configuration (i.e., EIS Alternative A [No Action]).
- Determine the extent to which the City of Chicago's proposal (i.e., EIS Alternative C) and other potential airfield/airspace improvement alternatives (i.e., EIS Alternatives D and G) would address airfield and airspace capacity issues associated with Alternative A (No Action).
- Provide input data to EIS noise and air quality analyses. These data include runway use distributions for use in noise modeling, time-in-mode data for aircraft emissions quantification, geographic delay distributions for aircraft emissions hot spot identification, and pollutant dispersion analysis.

D.2.2 Rationale for Use of TAAM

Of several airfield/airspace simulation models currently available in the industry, TAAM was selected for use in the EIS for the following reasons:

- TAAM allowed the definition of prioritized runway and taxiway usage rules, facilitating more realistic simulation of complex, demand-responsive runway, taxiway, and airspace movements.
- TAAM facilitates direct and real-time review of simulation models by air traffic controllers and other subject matter experts.
- TAAM was able to model runway crossings, aircraft pushbacks, and terminal-area congestion more accurately than other available airfield and airspace simulation models, all of which were important considerations in EIS operational analyses.
- TAAM simulation models of the existing O'Hare airfield and airspace configuration and
 potential airfield and airspace improvements had already been prepared as part of prior
 planning efforts sponsored by the City of Chicago.

D.2.3 Modeling Process

The CCT developed and ran the TAAM models referenced in this EIS. The TPC and FAA directly oversaw the development of these TAAM models through the establishment of a working group. This working group involved representatives from the following organizations:

- FAA Chicago Area Modernization Program Office (CAMPO)
- FAA Chicago O'Hare International Airport Traffic Control Tower (ORD Tower)
- FAA Chicago O'Hare Terminal Radar Approach Control facility (C90)
- FAA Chicago Air Route Traffic Control Center (ZAU)
- FAA's Third Party Contractor

Representatives from FAA management and the National Air Traffic Controllers Association (NATCA) from all three of the aforementioned air traffic facilities participated in the Air Traffic Working Group.

The modeling process generally followed a nine-step process, as follows:

- 1. For EIS purposes, four alternatives were modeled using TAAM.
- 2. Analyses of wind and weather conditions were conducted to determine annual percent occurrences of major runway operating configurations and weather conditions, as well as to determine which of these operating configurations and weather conditions warranted modeling.
- 3. Future aircraft activity schedules were developed to represent future activity levels of interest in the study. These schedules were selected to represent peak month,

average day (PMAD) conditions in 2007, when Construction Phase I of Alternatives C, D, and G would be completed; 2009, when Construction Phase II of Alternatives C, D, and G would be completed; 2013, when full Build Out of Alternatives C, D, and G would be completed; and 2018, the end of the study period considered in the EIS (Build Out + 5).

- 4. An experimental design, enumerating the combinations of airfield configurations, runway operating configurations, weather conditions, and aircraft activity levels would be modeled using TAAM, was specified, reviewed, and confirmed by the FAA Air Traffic Working Group.
- 5. TAAM modeling assumptions for each of the TAAM experiments specified in the experimental design were developed initially by the CCT and reviewed and refined by the TPC and FAA Air Traffic Working Group.
- 6. Initial TAAM models were developed by the CCT for each of the TAAM experiments specified in the experimental design and reviewed in detail by the FAA Air Traffic Working Group and TPC, which provided written comments and refinements to the CCT.
- 7. Refined TAAM models were developed by the CCT based on TPC and FAA direction and comments. These refined models were re-reviewed by the TPC and FAA, who provided additional comments and refinements to the CCT if required.
- 8. When a particular TAAM experiment or set of TAAM experiments were refined to TPC and FAA satisfaction, a memorandum was prepared by the TPC stating that the TPC and FAA concurred with the assumptions used in the model(s) and that the experiment results were acceptable for use in EIS technical analyses. In addition the FAA conducted periodic spot checks on the revised modeling runs.
- 9. Upon issuance of TPC concurrence memorandum, the CCT produced detailed documentation of final TAAM assumptions, input data, and results.

D.3 TAAM EXPERIMENTAL DESIGN

TAAM was used to evaluate the operational performance of physical airfield development alternatives. These alternatives were Alternative A (No Action), Alternative C, Alternative D, and Alternative G. The FAA and the TPC directed the CCT to develop an experimental design for the TAAM analyses of these alternatives to meet the simulation objectives enumerated in **Section D.2.1**, **Simulation Analysis Objectives**. This experimental design focused on simulating the assumed primary runway operating configurations and weather conditions

Exhibits D-1 through **D-6** show the final TAAM experimental design that was adopted for the EIS.

• Exhibit D-1 outlines the experiments for Alternative A (No Action) for the years 2002, 2007, 2009, 2013 and 2018.

- Exhibit D-2 outlines the experiments for Alternatives C, D and G for the year 2007.
- Exhibit D-3 outlines the experiments for Alternatives C, D and G for the year 2009.
- Exhibit D-4 outlines the experiments for Alternative C for the years 2013 and 2018.
- Exhibit D-5 outlines the experiments for Alternative D for the years 2013 and 2018.
- Exhibit D-6 outlines the experiments for Alternative G for the years 2013 and 2018.

All of the exhibits provide the estimated annual percent occurrence of the wind and weather conditions associated with each of the TAAM experiments. The occurrences were estimated by the CCT wind and weather data obtained from the National Climatic Data Center for the tenyear period, January 1, 1991 through December 31, 2000. The exhibits also show the peak month, average day (PMAD) demand levels that were simulated in each of the experiments. All inputs to TAAM were independently reviewed and approved for use by FAA and the FAA's TPC.

For Alternative A (No Action), the demand levels are constrained demand levels, reflecting the expectation that if no action is taken at O'Hare, airfield capacity constraints will limit the Airport's ability to accommodate unconstrained demand levels. **Appendix B, Aviation Demand Forecast** provides additional information regarding how the constrained and unconstrained demand levels and associated flight schedules were developed.



xperiment	Runway Option	Weather	Flow	Runway Configurations	Runway Diagram	Percent Utilization	Demand Level	Operations	
1						36.4	2002	2,648	
7							2007 Constrained	2,750	
12	No. Aurilia	\((5)	For	Dis. V	27			2009 Constrained	2,750
17	No Action	VFR	East	Plan X		27	2013 Constrained	2,750	
22						2018 Constrained	2,750		
27							2007 w/ NAR	2,898	
2					©	41.5	2002	2,648	
8					X		2007 Constrained	2,750	
13	No Action	VFR	West	Plan W	→		2009 Constrained	2,750	
18	140 71011011	****	Wost	1 1011 11	\	46.6	2013 Constrained	2,750	
23					`/		2018 Constrained	2,750	
28							2007 w/ NAR	2,898	
3						11.8	2002	2,648	
9					X		2007 Constrained	2,750	
14	No Action	VFR	South	Plan B		17.1		2009 Constrained	2,750
19				1 1011 2			17.1	2013 Constrained	2,750
24						1	2018 Constrained	2,750	
29							2007 w/ NAR	2,898	
4	No Action	VFR	South	Plan B Modified	X	4.3	2002	2,648	
5						3.8	2002	2,648	
10					. \		2007 Constrained	2,750	
15					\	6.0		2009 Constrained	2,750
20	No Action	IFR	West	Parallel 27s			6.0	2013 Constrained	2,750
25							2018 Constrained	2,750	
30						F	2007 w/ NAR	2,898	
6						2.2	2002	2,648	
11					. \		2007 Constrained	2,750	
16					14.	F	2009 Constrained	2,750	
21	No Action	IFR	East	Parallel 14s	•	3.3	2013 Constrained	2,750	
26					/		2018 Constrained	2,750	
31					-		2007 w/ NAR	2,898	
Existi Runv		Propos Runwa		Departure Purposes		Closed	Primary Arrivals	Primary Departures	
Overflo Depart		Overf Arriva		Overflow use of D	w Arrivals Dependent or Departure Overflow Run	n away	Overflow Depar use of Arrival O	tures Dependent or verflow Runway	

Chicago O'Hare International Airport

Experimental Design for Alternative A

O'Hare Modernization Environmental Impact Statement



Experiment	Runway Option	Weather	Flow	Runway Configurations	Runway Diagram	Percent Utilization	Demand Level	Operations
32	2007 North Runway	VFR	East	Plan X	9	23.1	2007	2,898
50	2007 North Runway	VFR	West	Parallel 27s	→	57.0	2007	2,898
34	2007 North Runway	VFR	South	Plan B		10.6	2007	2,898
35	2007 North Runway	IFR	West	Parallel 27s	•	6.0	2007	2,898
37	2007 North Runway	IFR	South	Parallel 14s		3.3	2007	2,898



Overflow Departures Dependent on use of Arrival Overflow Runway

VFR conditions assume visibility is greater than or equal to 3 miles and cloud ceiling is greater than or equal to 1,000 feet IFR conditions assume visibility is less than 3 miles and/or cloud ceiling is less than 1,000 feet



Source: Ricondo & Associates, 2004.

Chicago O'Hare International Airport

O'Hare Modernization Environmental Impact Statement 2007 Experimental Design for Alternatives C, D, & G

Primary

Arrivals

► Exhibit D-2

Primary Departures



Experiment	Runway Option	Weather	Flow	Runway Configurations	Runway Diagram	Percent Utilization	Demand Level	Operations
38	2009 Closely Spaced South Runway	VFR-3 ^{1/}	East	Parallel 9s	•	17.9	2009	2,987
39	2009 Closely Spaced South Runway	VFR-4 ^{2/}	East	Parallel 9s	9	5.2	2009	2,987
41	2009 Closely Spaced South Runway	VFR	West	Parallel 27s	X	67.6	2009	2,987
42	2009 Closely Spaced South Runway	IFR	West	Parallel 27s		4.8	2009	2,987
43	2009 Closely Spaced South Runway	IFR	East	Parallel 9s		4.5	2009	2,987







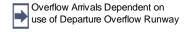














Overflow Departures Dependent on use of Arrival Overflow Runway

VFR conditions assume visibility is greater than or equal to 3 miles and cloud ceiling is greater than or equal to 1,000 feet IFR conditions assume visibility is less than 3 miles and/or cloud ceiling is less than 1,000 feet

Source: Ricondo & Associates, 2004.



Chicago O'Hare International Airport

O'Hare Modernization **Environmental Impact Statement** 2009 Experimental Design for Alternatives C, D, & G



Experiment	Runway Option	Weather	Flow	Runway Configurations	Runway Diagram	Percent Utilization	Demand Level	Operations
44	Alternative C	VFR-1 ^{3/}	East	Parallel 9s	*	12.6	2013	3,169
33	Alternative C	VFK-1	Last	(Quads)	→	12.0	2018	3,374
45	Alternative C	VFR-2 ^{4/}	East	Parallel 9s	+	10.6	2013	3,169
51	,	VIIV 2		(Trips)	* /*	.0.0	2018	3,374
46	Alternative C	VFR-1 ^{3/}	West	Parallel 27s	-	41.4	2013	3,169
52	,	VIIX		(Quads)	⊕		2018	3,374
47	Alternative C	VFR-2 ^{4/}	West	Parallel 27s	<u></u>	26.1	2013	3,169
53		VII.V 2		(Trips)	*		2018	3,374
48	Alternative C	IFR	East	Parallel 9s		4.5	2013	3,169
54							2018	3,374
49	Alternative C	IFR	West	Parallel 27s	-	4.8	2013	3,169
55				- 2, a.i.d. 27 0	*		2018	3,169
Existing Runway		Proposed Runways	— ^D P	eparture eurposes Only	Closed	Primary Arrivals	′ s ⇒	Primary Departures
	Overflow Departures Overflow Arrivals Dependent on use of Departure Overflow Runway Overflow Arrivals Dependent on use of Arrival Overflow Runway							

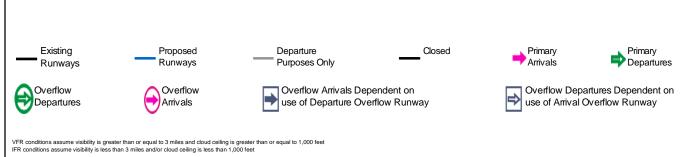
Chicago O'Hare International Airport

Experimental Design for Alternative C

O'Hare Modernization Environmental Impact Statement



Experiment	Runway Option	Weather	Flow	Runway Configurations	Runway Diagram	Percent Utilization	Demand Level	Operations
56	Alternative D	VFR	East	Parallel 9s		23.2	2013	3,169
60	Alternative D	VIIX	Lasi	r ai ailei 33	*	23.2	2018	3,374
57	Alternative D	VFR	West	Parallel 27s	-	67.5	2013	3,169
61	Alternative D	VIIX	West	Farallel 275	*	67.5	2018	3,374
58	Alternative D	IFR	East	Parallel 9s		4.5	2013	3,169
62	Alternative D	II K	Lasi	r ai ailei 33	*	4.3	2018	3,374
59	Alternative D	IFR	West	Parallel 27s		4.8	2013	3,169
63	Allemative D	ii K	West	1 alaliel 275	*	7.0	2018	3,374



Source: Ricondo & Associates, 2004.



Chicago O'Hare International Airport

Experimental Design for Alternative D

O'Hare Modernization Environmental Impact Statement



Experiment	Runway Option	Weather	Flow	Runway Configurations	Runway Diagram	Percent Utilization	Demand Level	Operations
64	- Alternative G	VFR	East	Parallel 9s	*	23.2	2013	3,169
69	Alternative	VIIX	Last	Faranci 33		25.2	2018	3,374
65	- Alternative G	VFR	West	Parallel 27s	-	67.5	2013	3,169
70	Alternative	VIIX	West	Taranci 273		07.5	2018	3,374
66	- Alternative G	IFR-1 ^{5/}	East	Parallel 9s	*	1.1	2013	3,169
71	Allemanve G	IFK-1	Ed5(Palanen 25		1.1	2018	3,374
67	- Alternative G	IFR-2 ^{6/}	East	Parallel 9s		3.4	2013	3,169
72	Alternative G	IFK-2		Parallel 95		3.4	2018	3,374
68	- Alternative G	IFR	West	Parallel 27s		4.8	2013	3,169
73	Allemanve G	IFK	West	Pălialiel 215	-	4.0	2018	3,374

Existing Proposed Departure Closed Primary Runways Purposes Only Arrivals Runways Overflow Overflow Overflow Arrivals Dependent on Overflow Departures Dependent on use of Arrival Overflow Runway use of Departure Overflow Runway Departures Arrivals

VFR conditions assume visibility is greater than or equal to 3 miles and cloud ceiling is greater than or equal to 1,000 feet IFR conditions assume visibility is less than 3 miles and/or cloud ceiling is less than 1,000 feet

Source: Ricondo & Associates, 2004.



Chicago O'Hare International Airport

Experimental Design for Alternative G

O'Hare Modernization **Environmental Impact Statement**

► Exhibit D-6

Primary Departures



D.4 TAAM INPUT DATA AND ASSUMPTIONS

TAAM input data and assumptions include existing and future flight schedules, airspace route structures, air traffic control rules and procedures, runway operating configuration assumptions, ground control rules and procedures (including taxiway use restrictions and taxiing speeds), airfield layouts, and aircraft gate and parking position assignments.

Input data and assumptions used in the TAAM analysis conducted in support of this EIS are described in detail in a series of "data packages" produced by Ricondo & Associates, which led the TAAM modeling effort on behalf of the CCT. Separate documents were produced for each simulated airfield alternative (i.e., Alternative A [No Action], Alternative C, Alternative D, and Alternative G). **Table D-2** summarizes the set of final data packages that were produced, together with their publication dates. These data packages (including over 7 million pages of documents)—as well as TAAM project files and associated correspondence between the FAA and TPC to/from the CCT—are available in electronic format on the FAA's O'Hare Modernization EIS website:

http://www.agl.faa.gov/omp/eistechsim/TAAM.htm.

Refer to these data packages for additional information regarding TAAM modeling assumptions, which include the following:

- Weather condition and runway use assumptions
- Runway crossing assumptions
- Aircraft separation assumptions
- Airfield layouts
- Airline gate assignments
- Runway and taxiway use assumptions
- Taxiing speeds
- Runway dependencies
- Land and hold short procedures
- Intersection departure procedures
- Noise abatement procedures
- Airspace route structures

These data packages and correspondence are herein incorporated by reference into this EIS. As described in greater detail in the following section, the FAA and the FAA's TPC independently reviewed and approved all TAAM simulation experiment results utilized within this EIS. An excerpt from one of these data packages, *TAAM Simulation Data for Noise and Air Quality Analysis*, 2018 With Project, dated April 2004, is provided in **Attachment D-1** for reference.

Appendix D D-12 July 2005

¹ TAAM Simulation Data for Noise and Air Quality Analysis, 2018 With Project, Ricondo and Associates, Inc. [CCT], April 2004.

TABLE D-2
TAAM DATA PACKAGES

EIS Alternative	Demand year	Title (a)	Issue date
Alternative A	2002	TAAM Simulation Data for Noise and Air Quality Analysis	January 2004
		· · · ·	v
(No Action)	2007	TAAM Simulation Data for Noise and Air Quality Analysis: 2007 No Action	February 2004 (b)
	2007	TAAM Simulation Data for Noise and Air Quality Analysis: 2007 No Action with NAR	February 2004
	2007	TAAM Simulation Data for Noise and Air Quality Analysis: 2007 No Action	July 2004
	2009	TAAM Simulation Data for Noise and Air Quality Analysis: 2009 No Action	July 2004
	2013	TAAM Simulation Data for Noise and Air Quality Analysis: 2013 No Action	July 2004
	2018	TAAM Simulation Data for Noise and Air Quality Analysis: 2018 No Action	July 2004
Alternative C	2007	TAAM Simulation Data for Noise and Air Quality Analysis: 2007 With Project	February 2004 (b)
	2007	TAAM Simulation Data for Noise and Air Quality Analysis: 2007 With Project	April 2004
	2009	TAAM Simulation Data for Noise and Air Quality Analysis: 2009 With Project	April 2004
	2013	TAAM Simulation Data for Noise and Air Quality Analysis: 2013 With Project	April 2004
	2018	TAAM Simulation Data for Noise and Air Quality Analysis: 2018 With Project	April 2004
Alternative D (c)	2013	TAAM Simulation Data for Noise and Air Quality Analysis: Alternative X	May 2004
	2018	TAAM Simulation Data for Noise and Air Quality Analysis: Alternative X	May 2004
Alternative G (c)	2013	TAAM Simulation Data for Noise and Air Quality Analysis: Alternative Y	May 2004
	2018	TAAM Simulation Data for Noise and Air Quality Analysis: Alternative Y	May 2004

(a) All data packages consisted of two physical volumes. The volumes were produced by Ricondo and Associates, Inc. [CCT] in all cases.

D.5 FAA/TPC/CCT REVIEW PROCESS

The FAA and TPC participated in an intensive, twelve month review process during this study. The objective of this process was to ensure that TAAM input assumptions, modeling methodologies, and output data conformed to industry best modeling practices and accurately reflected air traffic control rules and procedures. This review process involved representatives from the TPC and the FAA Air Traffic Working Group.

This review process began in August 2003, with concurrent TPC and FAA Air Traffic Working Group reviews of TAAM simulation experiments that had been produced as part of preliminary CCT planning efforts. During the fall of 2003, the TPC and FAA Air Traffic Working Group reviewed initial sets of TAAM assumptions provided by the CCT as well as the preliminary experimental design for the study.

The TPC and FAA Air Traffic Working Group met as needed during the Fall of 2003 to (1) review TAAM modeling assumptions—including those related to aircraft gating, airfield and airspace use, airspace structure, preferred taxiway routings, runway crossings, and airspace procedures, (2) review and approve the TAAM experimental design for the EIS, and (3) review and approve delay annualization methodologies.

Beginning in December 2003, the TPC and FAA Air Traffic Working Group began conducting multi-day review sessions at the FAA Great Lakes Regional Office. During these sessions, the

⁽b) These two data packages for 2007 No Action and With Project were superseded by the 2007 No Action and With Project data packages dated July 2004 and April 2004, respectively.

⁽c) Alternatives D and G at the 2007 and 2009 demand years are identical to Alternative C.

TPC and FAA reviewed each individual TAAM experiment prepared by the CCT for use in the EIS. In these review sessions, TPC TAAM experts and FAA Air Traffic Working Group members: (1) evaluated preliminary TAAM results, (2) reviewed TAAM input assumptions, (3) verified correct use of these assumptions in TAAM, and (4) watched full animations of each TAAM experiment. **Table D-3** lists the nine review sessions that were held and the TAAM experiments that were reviewed during the sessions.

TABLE D-3
FAA/TPC TAAM REVIEW SESSIONS

Dates	TAAM Experiments Reviewed
December 29-31, 2003	2002 Alternative A (No Action) experiments
January 12-16, 2004	2007 Alternative A (No Action) and Alternative C experiments
January 20-23, 2004	2018 Alternative A (No Action) and Alternative C experiments
February 2-6, 2004	2018 Alternative A (No Action) and Alternative C experiments
February 16-20, 2004	2013 Alternative A (No Action) and Alternative C experiments
March 1-5, 2004	2009 Alternative A (No Action) and Alternative C experiments
March 22-26, 2004	2013 and 2018 Alternative D and Alternative G experiments
June 21-24, 2004	Revised 2007, 2009, 2013, and 2018 Alternative A (No Action) experiments
June 28- July 1, 2004	Revised 2007, 2009, 2013, and 2018 Alternative A (No Action) experiments

In addition to these review sessions, the TPC produced a series of technical memoranda and other written communications regarding the TAAM model reviews. These technical memoranda are herein incorporated by reference into this EIS. For exemplary purposes, a technical memorandum concurring with the 2018 Alternative C experiments is included as **Attachment D-2.** Electronic versions of these communications are available on the FAA's EIS website:

http://www.agl.faa.gov/omp/eistechsim/TAAM.htm.

In addition to the written technical memoranda, the FAA issued two memoranda regarding the TAAM modeling conducted for the EIS. The first memorandum was issued by FAA's Air Traffic workgroup, dated December 16, 2004 and is included as **Attachment D-3** to this appendix. The second memorandum was issued by FAA's Chicago Airports District Office, dated December 17, 2004. The December 17, 2004 memorandum stated:

...the process FAA employed in this TAAM analysis is unprecedented in the scope and breadth of modeling effort and review for any simulation analysis ever conducted for any single airport. At the end of the TAAM analysis, 109 TAAM experiments were conducted in support of this EIS (73 experiments specifically for the environmental analysis and 36 experiments to support the Alternatives Chapter). The FAA AT workgroup invested approximately 1400 hours reviewing assumptions, draft results, animations, and final results as part of the process. The FAA's Third Party Contractor invested approximately 650 hours...

This memorandum is included in its entirety as **Attachment D-4** to this appendix.

D.6 TAAM RESULTS

This section summarizes the estimates of average aircraft delay that were developed using TAAM. More detailed TAAM results and output files are provided in the TAAM data packages enumerated in **Table D-2**. Output data included in the data packages include:

- Total modeled operations (arrivals and departures)
- Operations during peak-15 minute and peak hourly periods
- Rolling hourly counts of aircraft operations
- Average aircraft delays by phase of flight

In addition, the data packages include output files generated directly by TAAM, which were used in subsequent air quality and noise modeling efforts conducted for the EIS. These data include localized delay estimates, departure runway queue characteristics, aircraft fleet mix data, and runway and flight track utilization data.

D.6.1 Definition of Delay

The following sections present summary delay results for each of the modeled airfield development alternatives. These delay estimates represent the "excess travel time" that modeled aircraft experience as a result of the presence of other aircraft in the simulation. These excess travel time delays are computed by subtracting the simulated aircraft travel time from an unimpeded travel time (i.e., the time it would take for the aircraft to fly from its origin airport to its destination airport if it did not encounter any other aircraft en route). The tables in the following sections present excess travel time delays estimated for peak month, average day (PMAD) conditions for individual combinations of runway operating configuration and weather conditions. In addition, estimates of average annual delays, which have been calculated by weighting PMAD delays by their respective percent occurrences and adjusting the resulting weighted average to account for the fact that average annual demand levels are lower than PMAD demand levels. Additional information regarding the methodology used to compute these delays is provided in the TAAM data packages referenced in **Table D-2**.

D.6.2 Alternative A (No Action) Delay Estimates

Table D-4 presents comparative aircraft delay estimates for Alternative A (No Action). The table shows the delay that was estimated using TAAM for PMAD activity levels, as well as the weighted average annual delay estimates for Alternative A (No Action) at the 2007, 2009, 2013, and 2018 demand levels.

It is important to recognize that the delay results presented in **Table D-4** were generated using constrained aircraft flight schedules, which reflect the inability of Alternative A (No Action) to accommodate anticipated growth in aviation activity at the Airport within acceptable levels of delay. The methodology used to develop the constrained flight schedules can be found in **Appendix B, Aviation Demand Forecast.**

TABLE D-4
ESTIMATED AVERAGE AIRCRAFT DELAYS: ALTERNATIVE A (NO ACTION)
FOR ALL PHASES (CONSTRAINED SCHEDULE)

	n, Average Day Co r operation)	onditions				
Runway Use Configuration	Weather Condition (a)	Percent Occurrence	2007	2009	2013	2018
Plan X	VFR	27.0%	10.4	9.8	10.4	10.2
Plan W	VFR	46.6%	8.2	8.1	8.9	8.8
Plan B	VFR	17.1%	27.3	27.1	30.6	31.0
Parallel 27s	IFR	6.0%	48.2	46.5	48.7	48.9
Parallel 9s	IFR	3.3%	82.1	83.1	84.3	84.0
Average annual delay (minutes per operation)			16.2	15.9	17.2	17.1
Peak month, ave	erage day aircraft	operations (b)	2,750	2,750	2,750	2,750

Sources:

TAAM Simulation Data for Noise and Air Quality Analysis, 2007 No Action, Ricondo and Associates, Inc. [CCT], July 2004;

TAAM Simulation Data for Noise and Air Quality Analysis, 2009 No Action, Ricondo and Associates, Inc. [CCT], July 2004;

TAAM Simulation Data for Noise and Air Quality Analysis, 2013 No Action, Ricondo and Associates, Inc. [CCT], July 2004:

TAAM Simulation Data for Noise and Air Quality Analysis, 2018 No Action, Ricondo and Associates, Inc. [CCT], July 2004.

D.6.3 Alternative C Delay Estimates

Tables D-5, D-6, and **D-7** present comparative aircraft delay results for Alternative C. The tables show the delay that was estimated using TAAM for PMAD activity levels, as well as the weighted average annual delay estimates for Alternative C at the 2007, 2009, 2013, and 2018 demand levels.

Table D-5 presents delay estimates for the first construction phase of Alternative C, in which a new 7,500 foot long Runway 9L/27R would be constructed on the far north side of the airfield.

⁽a) VFR conditions occur when the cloud ceiling is at least 1,000 feet above the Airport's elevation and visibility is at least 3 statute miles. IFR conditions occur when the cloud ceiling is less than 1,000 feet above the Airport's elevation or visibility is less than 3 statute miles.

⁽b) This level of operations was constrained reflecting the inability of Alternative A (No Action) to accommodate unconstrained demand levels at acceptable levels of delay.

TABLE D-5
ESTIMATED AVERAGE AIRCRAFT DELAYS:
ALTERNATIVE C—CONSTRUCTION PHASE I

Runway Use Configuration	Weather Condition (a)	Estimated Annual Percent Occurrence	Average delay: Peak Month, Average Day Conditions 2007 demand (minutes per operation)
Plan X	VFR	23.1%	16.1
Parallel 27s	VFR	57.0%	5.8
Plan B	VFR	10.6%	35.5
Parallel 27s	IFR	6.0%	31.8
Parallel 14s	IFR	3.3%	105.4
Average annual	delay (minutes p	er operation)	15.5
Peak month, ave	erage day aircraft	operations	2,898

(a) VFR conditions occur when the cloud ceiling is at least 1,000 feet above the Airport's elevation and visibility is at least 3 statute miles. IFR conditions occur when the cloud ceiling is less than 1,000 feet above the Airport's elevation or visibility is less than 3 statute miles.

Sources

TAAM Simulation Data for Noise and Air Quality Analysis, 2007 With Project, Ricondo and Associates, Inc. [CCT], April 2004.

Table D-6 presents delay results for Construction Phase II of Alternative C, in which a 10,800 foot long Runway 10C/28C would be constructed and Runway 10L/28R (existing Runway 9R/27L) would be extended to a length of 13,000 feet.

TABLE D-6 ESTIMATED AVERAGE AIRCRAFT DELAYS: ALTERNATIVE C—CONSTRUCTION PHASE II

		Estimated Annual	Average delay: Peak Month, Average Day Conditions (minutes per operation) (b)		
Runway Use Configuration	Weather Condition (a)	Percent Occurrence	2009	2013 (c)	
Parallel 27s	VFR-3/VFR-4	67.6%	5.2	6.5	
Parallel 9s	VFR-3	17.9%	9.4	15.3	
Parallel 9s	VFR-4	5.2%	13.7	22.6	
Parallel 27s	IFR	4.8%	30.2	46.2	
Parallel 9s	IFR	4.5%	75.8	95.8	
Average annual	delay (minutes p	er operation)	10.3	14.2	
Peak month, ave	erage day aircraft	operations	2,987	3,169	

Notes:

- (a) VFR-3 conditions occur when the cloud ceiling is at least 3,000 feet above the Airport's elevation and visibility is at least 5 statute miles. VFR-4 conditions occur when the cloud ceiling is less than 3,000 feet above the Airport's elevation but is at least 1,000 feet above the Airport's elevation or when visibility is less than 5 statute miles but is at least 3 statute miles. IFR conditions occur when the cloud ceiling is less than 1,000 feet above the Airport's elevation or visibility is less than 3 miles.
- (b) These delay estimates apply to the second phase of Alternative C, in which new Runway 10C/28C would be constructed and Runway 10L/28R (existing Runway 9R/27L) would be extended.
- (c) Hypothetical delay estimates assuming that the City of Chicago retains the Construction Phase II operating configuration through 2013.

Sources:

TAAM Simulation Data for Noise and Air Quality Analysis, 2009 With Project, Ricondo and Associates, Inc. [CCT], April 2004;

Transmittal Memorandum, "Revisions OMP EIS – Need for Additional TAAM Experiments", Ricondo and Associates, Inc. [CCT], August 27, 2004.

Table D-7 presents delay results for the full build out of the eight-runway Alternative C airfield configuration.

TABLE D-7
ESTIMATED AVERAGE AIRCRAFT DELAYS:
ALTERNATIVE C—BUILD OUT & BUILD OUT+ 5

		Estimated Annual	Average delay: Peak Month, Average Day Conditions (minutes per operation) (b)		
Runway Use Configuration	Weather Condition (a)	Percent Occurrence	2009 (c)	2013	2018
Parallel 27s	VFR-1	41.4%	3.8	4.1	4.7
Parallel 9s	VFR-1	12.6%	3.3	3.7	4.2
Parallel 27s	VFR-2	26.1%	3.7	4.2	5.0
Parallel 9s	VFR-2	10.6%	3.5	4.2	4.6
Parallel 27s	IFR	4.8%	9.5	16.0	18.8
Parallel 9s	IFR	4.5%	11.9	17.2	20.8
Average annual delay (minutes per operation)		4.1	5.0	5.8	
Peak month, average day aircraft operations			2,987	3,169	3,374

- (a) VFR-1 conditions occur when the cloud ceiling is at least 5,500 feet above the Airport's elevation and visibility is at least 10 statute miles. VFR-2 conditions occur when the cloud ceiling is less than 5,500 feet above the Airport's elevation but is at least 1,000 feet above the Airport's elevation or when visibility is less than 10 statute miles but is at least 3 statute miles. IFR conditions occur when the cloud ceiling is less than 1,000 feet above the Airport's elevation or visibility is less than 3 miles.
- (b) These delay estimates presume that the full build out of the eight-runway Alternative C airfield is completed.
- (c) Hypothetical results assuming that Alternative C could be built out by 2009.

Sources:

TAAM Simulation Data for Noise and Air Quality Analysis, 2013 With Project, Ricondo and Associates, Inc. [CCT], April 2004;

TAAM Simulation Data for Noise and Air Quality Analysis, 2018 With Project, Ricondo and Associates, Inc. [CCT], April 2004:

Transmittal Memorandum, "Revisions OMP EIS – Need for Additional TAAM Experiments", Ricondo and Associates, Inc. [CCT], August 27, 2004.

D.6.4 Alternative D Delay Estimates

Table D-8 presents comparative aircraft delay results for the Build Out and Build Out + 5 years of Alternative D. The table shows the delay that was estimated using TAAM for PMAD activity levels, as well as the weighted average annual delay estimates for Alternative D at the 2009, 2013 and 2018 demand levels. Because the construction phasing assumptions associated with Alternative D would result in identical airfield configurations to Alternative C, delay results for Alternative D's Construction Phase 1 and 2 would be identical to the values estimated for Alternative C and shown in **Tables D-5** and **D-6**.

TABLE D-8
ESTIMATED AVERAGE AIRCRAFT DELAYS:
ALTERNATIVE D—BUILD OUT & BUILD OUT +5

	Weather Condition (a)	Estimated Annual Percent Occurrence	Average delay: Peak Month, Average Day Conditions (minutes per operation) (b)			
Runway Use Configuration			2009 (c)	2013	2018	
Parallel 27s	VFR	67.5%	3.7	4.2	5.0	
Parallel 9s	VFR	23.2%	4.6	4.9	7.8	
Parallel 27s	IFR	4.8%	9.5	16.0	18.8	
Parallel 9s	IFR	4.5%	62.9	84.6	108.4	
Average annual delay (minutes per operation)		6.6	8.2	10.5		
Peak month, average day aircraft operations			2,987	3,169	3,374	

- (a) VFR conditions occur when the cloud ceiling is at least 1,000 feet above the Airport's elevation and visibility is at least 3 statute miles. IFR conditions occur when the cloud ceiling is less than 1,000 feet above the Airport's elevation or visibility is less than 3 statute miles.
- (b) These delay estimates presume that the full build-out of the seven-runway Alternative D airfield is completed.
- (c) Hypothetical results assuming that Alternative D could be built out by 2009.

Sources:

Transmittal Memorandum, "Revisions OMP EIS—Need for Additional TAAM Experiments", Ricondo and Associates, Inc. [TPC], May 14, 2004;

TAAM Simulation Data for Noise and Air Quality Analysis, 2013 Alternative X, Ricondo and Associates, Inc. [CCT], May 2004; TAAM Simulation Data for Noise and Air Quality Analysis, 2018 Alternative X, Ricondo and Associates, Inc. [CCT], May 2004.

D.6.5 Alternative G Delay Estimates

Table D-9 presents comparative aircraft delay results for the Build Out and Build Out + 5 years of Alternative G. The table shows the delay that was estimated using TAAM for PMAD activity levels, as well as the weighted average annual delay estimates for Alternative G at the 2009, 2013, and 2018 demand levels. Because the construction phasing assumptions associated with Alternative G would result in identical airfield configurations to Alternative C, delay results for Alternative G's Construction Phases 1 and 2 would be identical to the values estimate for Alternative C and shown in **Tables D-5** and **D-6**.

TABLE D-9
ESTIMATED AVERAGE AIRCRAFT DELAYS:
ALTERNATIVE G—BUILD OUT AND BUILD OUT + 5

		Estimated Annual	Average delay: Peak Month, Average Day Conditions (minutes per operation) (b)		
Runway Use Configuration	Weather Condition (a)	Percent Occurrence	2009 (с)	2013	2018
Parallel 27s	VFR	67.5%	3.7	4.2	5.0
Parallel 9s	VFR	23.2%	3.4	4.1	5.2
Parallel 27s	IFR-1/IFR-2	4.8%	9.5	16.0	18.8
Parallel 9s	IFR-1	1.1%	12.0	15.5	20.3
Parallel 9s	IFR-2	3.4%	22.6	31.0	42.6
Average annual delay (minutes per operation)			4.4	5.6	6.9
Peak month, average day aircraft operations			2,987	3,169	3,374

- (a) VFR-1 conditions occur when the cloud ceiling is at least 5,500 feet above the Airport's elevation and visibility is at least 10 statute miles. VFR-2 conditions occur when the cloud ceiling is less than 5,500 feet above the Airport's elevation but is at least 1,000 feet above the Airport's elevation or when visibility is less than 10 statute miles but is at least 3 statute miles. IFR conditions occur when the cloud ceiling is less than 1,000 feet above the Airport's elevation or visibility is less than 3 statute miles.
- (b) These delay estimates presume that the full build-out of the eight-runway Alternative G airfield is completed.
- (c) Hypothetical results assuming that Alternative G could be built out by 2009.

Sources:

TAAM Simulation Data for Noise and Air Quality Analysis, 2013 Alternative Y, Ricondo and Associates, Inc. [CCT], May 2004;

TAAM Simulation Data for Noise and Air Quality Analysis, 2018 Alternative Y, Ricondo and Associates, Inc. [CCT], May 2004;

Transmittal Memorandum, "Revisions OMP EIS—Need for Additional TAAM Experiments", Ricondo and Associates, Inc. [TPC], August 27, 2004.

D.7 ESTIMATED DELAYS FOR NON-MODELED ALTERNATIVES

Proposed runway development Alternatives B, E, and F were not modeled explicitly with TAAM in this modeling effort either because (1) they closely resembled one of development alternatives that was modeled explicitly (i.e., Alternatives B and F) or (2) qualitative assessment indicated that the alternative would perform more poorly than a modeled alternative (i.e., Alternative E). The following paragraphs describe the expected delays associated with these non-modeled alternatives.

D.7.1 Alternative B Delay Estimates

Alternative B is a limited development alternative that was included in the screening process. This alternative is equivalent to the Alternative C airfield after Construction Phase II—that is, two proposed new runways (Runway 9L/27R and Runway 10C/28C)—but no further development after this phase. Thus, TAAM results generated for Alternative C (Construction Phase II) were used to estimate delays for Alternative B.

D.7.2 Alternative E Delay Estimates

Alternative E is an alternative that is very similar to Alternative D—development of all but one runway (Runway 9L/27R) of the full Build Out Alternative C. Based on review of the likely operational configurations of Alternative E, it was estimated that delays would be similar in some configurations and higher (worse) in others. Overall, it was estimated that average delays for Alternative E would be higher than for Alternative D.

D.7.3 Alternative F Delay Estimates

Alternative F is the same as Alternative C, plus an additional Runway 12/30. Alternative F was studied in detail in an earlier modeling effort performed by the City of Chicago at the request of and in coordination with FAA. This earlier modeling effort, termed the *Runway 12/30 "Proof of Concept" Evaluation* ² was conducted during the summer of 2003. In this modeling effort, it was estimated that average delays would be slightly higher than those for Alternative C. However, given that Alternative F has the same runways as Alternative C, as well as an additional runway (12/30), Alternative F if implemented could be operated in the same way as Alternative C. In other words, Runway 12/30, while included in Alternative F, would seldom be used. Therefore, it can be said that the annual average delays could be the same as Alternative C.

D.8 DELAY COMPARISON

Exhibit D-7 shows how average annual delays would be expected to grow for Alternatives B, C, D, and G as aviation activity levels increase at the Airport for the forecast period. For example, average annual delays for Alternative D would be approximately 6.0 minutes, 6.5 minutes, 8.0 minutes, and 10.5 minutes per operation in 2007, 2009, 2013 and 2018 respectively. The delay levels associated with Alternative A exceed the delay levels depicted in Exhibit D-7 at demand levels lower than 1 million annual operations and, consequently, are not depicted in the figure. The delay curves graphed in Exhibit D-7 are superimposed atop one another to depict a composite delay graph that indicates how average annual delays would evolve as the various EIS alternatives are constructed, as shown in Exhibits D-8, D-9, D-10 and D-11.

As mentioned in prior sections of the EIS, Alternatives B, C, D, and G would be implemented in phases, beginning with construction of the far north Runway 9L/27R. This would be followed by a second phase of construction that would include construction of new Runway 10C/28C and extension of Runway 10L/28R. Alternative B would be complete at this point. A third phase—or "Build Out"—would occur with Alternatives C, D, and G. For Alternative C, Build Out would include construction of Runways 9C/27C and 10R/28L and the extension of Runway 9R/27L. For Alternative D, only new Runway 9C/27C and the extension of Runway

Discussion Outline – OMP Advisory Session, Runway 12/30, "Proof of Concept" Evaluation, Ricondo and Associates, Inc. [CCT], September 11, 2003.

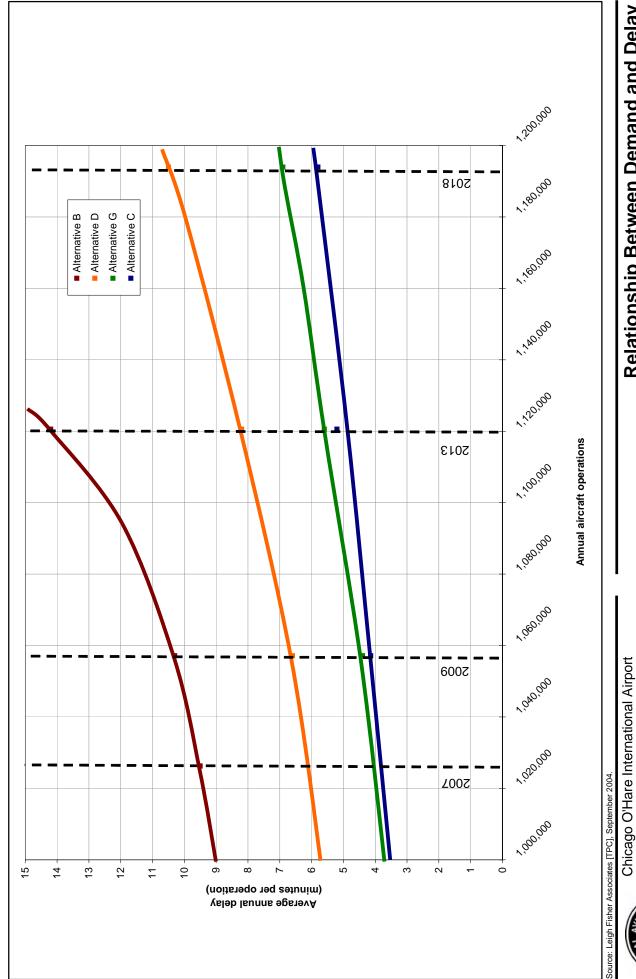
9R/27L would be constructed. For Alternative G, new Runways 9C/27C and 12/30 would be constructed together with the extension of Runway 9R/27L.

Exhibits D-8 through D-11 show how average annual delay levels would evolve as the various construction phases are completed for Alternatives B, C, D, and G. These delay graphs assume that construction of the alternatives would proceed as proposed by the City of Chicago, with Construction Phase 1 being completed in 2007, Construction Phase 2 (Build Out of Alternative B) being completed in 2009, and Build Out of Alternatives C, D, and G being completed in 2013.

Using **Exhibit D-9** showing Alternative C as an example, average annual delays would be approximately 23 minutes per operation in 2007 as replacement Runway 9L/27R opens; once open the delays would be reduced to approximately 15 minutes per operation. In 2009, the average annual delays would grow to approximately 20 minutes per operation as Runway 10C/28C opens; once open the delays would fall to approximately 10 minutes per operation. In 2013, the average annual delays would grow to approximately 14 minutes as Runways 9C/27C and 10R/28L would open; once open the delays would fall to just over 5 minutes per operation.

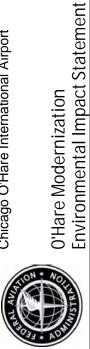


D-24





Average Annual Delay Estimates Alternative B Showing Phased Implementation

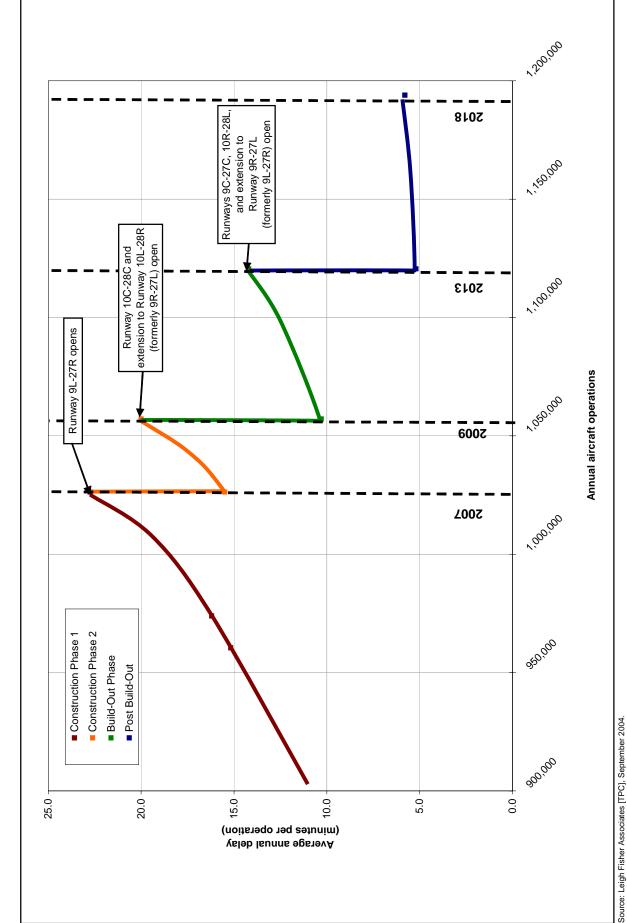


Chicago O'Hare International Airport O'Hare Modernization



Average Annual Delay Estimates Alternative C Showing Phased Implementation





Environmental Impact Statement Chicago O'Hare International Airport O'Hare Modernization





1,30,00

1,50,00

1,00,00

1020000

1,00,00

000,000

0.0

Annual aircraft operations

2018

2013

5002

2002

5.0

Runway 9C-27C and extension to Runway 9R-27L (formerly 9L-27R) open

extension to Runway 10L-28R (formerly 9R-27L) open Runway 10C-28C and

Runway 9L-27R opens

■ Construction Phase 1 Construction Phase 2 Build-Out Phase Post Build-Out

25.0

20.0

15.0

10.0

(minutes per operation) Average annual delay





Chicago O'Hare International Airport O'Hare Modernization

Environmental Impact Statement









Environmental Impact Statement O'Hare Modernization

2018 Runways 9C-27C, 12-30, and extension to Runway 9R-27L (formerly 9L-27R) open Runway 10C-28C and extension to Runway 10L-28R (formerly 9R-27L) open 1,00,00 2013 Runway 9L-27R opens Annual aircraft operations 1020000 6002 2002 1,00,00 Construction Phase 2 Construction Phase 1 Build-Out Phase Post Build-Out Source: Leigh Fisher Associates [TPC], September 2004. 20.0 0.0

10.0

15.0

(minutes per operation) Average annual delay

25.0



ATTACHMENT D-1

SAMPLE EXCERPTS FROM TAAM SIMULATION DATA PACKAGE 2018 WITH PROJECT APRIL 2004



O'HARE MODERNIZATION PROGRAM TAAM SIMULATION DATA FOR NOISE AND AIR QUALITY ANALYSIS (DRAFT)

Prepared for: City of Chicago, Department of Aviation

Prepared by: Ricondo & Associates, Inc.

April 2004

O'Hare International Airport

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III Experiment 51 - VFR-2 Parallel 9s

- 1. Simulation Assumptions
- 2. Taxiway Routes
- 3. Airspace Routes
- 4. Runway Assignment Rules (TAAM usage file)
- 5. SIDs and STARs Rules (TAAM usage file)
- 6. Arrival/Departure Sequencing (TAAM usage file)
- 7. SIDs
- 8. STARs
- 9. TAAM Summary Statistics for Air Quality Analysis

IV Experiment 52 - VFR-1 Parallel 27s

- 1. Simulation Assumptions
- 2. Taxiway Routes
- 3. Airspace Routes
- 4. Runway Assignment Rules (TAAM usage file)
- 5. SIDs and STARs Rules (TAAM usage file)
- 6. Arrival/Departure Sequencing (TAAM usage file)
- 7. SIDs
- 8. STARs
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V Experiment 53 - VFR-2 Parallel 27s

- 1. Simulation Assumptions
- 2. Taxiway Routes
- 3. Airspace Routes
- 4. Runway Assignment Rules (TAAM usage file)
- 5. SIDs and STARs Rules (TAAM usage file)
- 6. Arrival/Departure Sequencing (TAAM usage file)
- 7. SIDs
- 8. STARs
- 9. TAAM Summary Statistics for Air Quality Analysis

VI Experiment 54 - IFR Parallel 9s

- 1. Simulation Assumptions
- 2. Taxiway Routes
- 3. Airspace Routes
- 4. Runway Assignment Rules (TAAM usage file)
- SIDs and STARs Rules (TAAM usage file)
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VII Experiment 55 - IFR Parallel 27s

- 1. Simulation Assumptions
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- 5. SIDs and STARs Rules (TAAM usage file)
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VIII Annualized TAAM Summary Statistics for Air Quality Analysis

LIST OF CONTENTS AVAILABLE ON THE INCLUDED DVD

- 1. List of NAVAIDS/Waypoints
- 2. Flight Schedule
- 3. TAAM Summary File for each experiment
- 4. TAAM History File for each experiment
- 5. TAAM Report File for each experiment
- 6. TAAM Global Flight Data Recorder File for each experiment
- 7. TAAM Summary Statistics for Air Quality Analysis for each experiment

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General

1.1 Weather Conditions and Runway Use

In order to calculate estimates of average annual delays from TAAM simulation results, Ricondo & Associates estimated the annual percentage of specific weather conditions and the associated use of various runway-operating configurations. In the 2002 "No Action" experiments, these factors were computed using 2002 calendar year runway use data obtained from the City of Chicago's Airport Noise Monitoring System (ANMS), and weather data reported by the Federal Aviation Administration (FAA) in their Aviation System Performance Metrics (ASPM) database. A more detailed explanation of the 2002 annualized weightings is contained in the 2002 No Action Simulation Data Package.

To establish annualized weightings for the 2013 and 2018 demand years the use of a larger historical data set is desired to identify weather conditions representative of long-term trends. Accordingly, wind and weather data for Chicago O'Hare International Airport (the Airport) representing ten years of hourly observations collected by the National Climatic Data Center at the Airport between January 1991 and December 2000 was used. This data was reviewed to determine the nature, frequency, and duration of weather conditions that influence aircraft operations.

Table I-1 compares the percent of time conditions associated with visual flight rules (VFR) and instrument flight rules (IFR) occurred in 2002 and over the 10-year period from 1991 to 2000.

Table I-1

Percent Occurrence of VFR and IFR Conditions From a 10-Year Sample of Weather Data

		Percer	t occurrence
Weather	Description	2002 data set	10-year data set
VFR	Cloud ceiling at least 1,000 feet above ground level AND visibility at least 3 statute miles	94.0%	90.7%
	Cloud ceiling less than 1,000 feet above ground level <i>OR</i> visibility less than 3 statute miles	6.0%	9.3%
	TOTAL	100.0%	100.0%

Source: National Climatic Data Center (January 1, 1991 through December 31, 2000), City of Chicago ANMS 2002, FAA ASPM 2002 Prepared By: Ricondo & Associates

Pertinent weather observations from the 10-year weather data set—including wind velocity, wind direction, cloud ceiling height, and visibility-were used to identify the annual percentage of occurrence associated with the "with project" modeled runway operating configurations for the 2013 and 2018 analysis years. It was assumed that runways in a particular orientation would be available for use provided (1) the tailwind component associated with the runway's orientation is no greater than 5 knots and (2) the crosswind component associated with the runway's

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orientation is no greater than 20 knots in VFR conditions and 15 knots under IFR conditions. No tailwind component was allowed for runways where Land and Hold Short (LAHSO) procedures are used. In the "with project" case, observations associated with calm conditions were assigned to the Runway 27 operating configuration, which was designated by the air traffic workgroup as the preferred operating configuration in the 2013 and 2018 "with project" airfield configuration.

In addition to wind direction and velocity, other meteorological conditions, such as cloud ceiling height, visibility, and precipitation affect airfield performance. Low cloud ceiling heights and/or visibility conditions may preclude the use of some runway-operating configurations and the use of visual separation rules, which could result in a loss of airfield capacity, increased travel times, and possibly the use of extra space between aircraft in the airspace surrounding the Airport. Additionally, wet runways prevent the use of LAHSO procedures, which can adversely affect the viability or the operational efficiency of some runway-operating configurations.

In order to capture the effects associated with the aforementioned weather conditions, (1) LAHSO runway-operating configurations were only considered viable in VFR conditions during periods where no precipitation was reported, and (2) in the cases where the capability to land on four runways exist (i.e. 2013/2018 "with project" case), two VFR operating conditions are established based on cloud ceiling height and visibility:

- Visual Flight Rules 1 (VFR-1), which account for weather conditions where cloud ceiling
 height is equal to or above 5,500 feet above ground level (AGL) and visibility is 10
 statute miles or greater.
- Visual Flight Rules 2 (VFR-2), which account for weather conditions where cloud ceiling height is less than 5,500 feet AGL, but, equal to or greater than 1,000 feet, and visibility is less than 10 statute miles, but, equal to or greater than 3 statute miles.

In the VFR-1 condition it is assumed that visual approach procedures would be applied to accommodate the use of the fourth arrival runway. In the VFR-2 weather condition the assumption is that visual separation could not be applied and, due to the spacing between Runways 10C/28C and 10R/28L, only three arrival runways would be available for use.

Six (6) runway-operating configurations are modeled in TAAM for the "with project" case for the 2013 and 2018 analysis years. To estimate the annual use of the modeled configuration all plausible runway-operating configurations and their sub-components were assessed under VFR and IFR conditions. For the purposes of annualization of TAAM delay results, all values associated with non-modeled operating configurations were assigned to the most similar modeled runway-operating configuration. VFR observations were only assigned to modeled VFR operating configurations. Likewise, IFR observations were only assigned to modeled IFR operating configurations.

Table 1-2 depicts the allocations made in the 2013/2018 "with project" cases.

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Table I-2

Allocations of Non-Modeled Runway-Operating Configurations to TAAM Modeled Runway Operating-Configurations – With Project 2013 and 2018

	Esti	mated annual occurrer		Assumed TAAM Ope	erating Configuration
Assessed Operating Configurations	VFR-1	VFR-2	IFR	VFR	IFR
Parallel 9s	12.5	10.6	4.2	Parallel 9s	Parallel 9s
Parallel 27s w/22L	41.1	25.8	4.6	Parallel 27s w/22L	Parallel 27s w/22L
Parallel 27s	0.3	0.3	<0.1	Parallel 27s w/22L	Parallel 27s w/22L
Parallel 9s w/4L	0.0	0.0	0.0	Parallel 9s	Parallel 9s
Parallel 22s	<0.1	<0.1	<0.1	Parallel 27s w/22L	Parallel 27s w/22L
Parallel 4s	<0.1	<0.1	0.3	Parallel 9s	Parallel 9s
Unaccounted	<0.1	<0.1	<0.1	Parallel 9s	Parallel 9s

Sources: National Climatic Data Center (January 1, 1991 through December 31, 2000); Ricondo & Associates, Inc. Prepared By: Ricondo & Associates, Inc.

Tables I-3 shows the annualized weightings for modeled runway-operating configurations resulting from the weather analysis conducted using the assumptions previously described.

Table I-3

Annualized Weighting for O'Hare International Airport - With Project Operating Configurations 2013 and 2018

TAAM experiment numbers	Runway configuration	Weather condition	Estimated annual percentage of occurrence
44, 33	Parallel 9s (Quad)	VFR-1	12.6%
45, 51	Parallel 9s (Triple)	VFR-2	10.6%
46, 52	Parallel 27s w/22L1/ (Quad)	VFR-1	41.4%
47, 53	Parallel 27s w/22L1/ (Triple)	VFR-2	26.1%
48, 54	Parallel 9s	IFR	4.5%
49, 55	Parallel 27s ^{1/}	IFR	4.8%

Preferred Operating Configurations for Indicated Weather Condition

Note: The 2013 and 2018 runway operating configurations are based on the addition of 3 runways, Runways 9C/27C, 10C/28C, and 10R/28L.

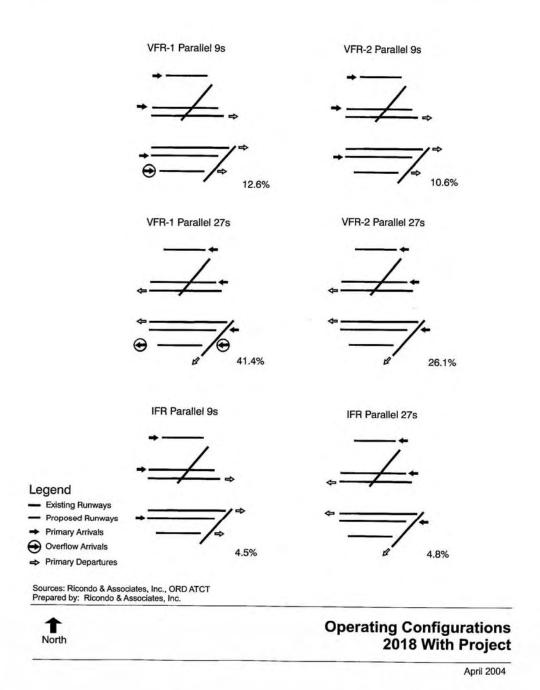
Sources: National Climatic Data Center (January 1, 1991 through December 31, 2000); Ricondo & Associates, Inc. Prepared By: Ricondo & Associates, Inc.

The following exhibit graphically depicts the 2018 With Project operating configurations.

OMP Simulation Data Package 2018 With Project

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1.2 Runway Crossing Assumptions

- A. Time required for various aircraft types to begin acceleration when crossing a runway were modified and can be found in the "xrwy_times.dat" file. Those times are as follows:
 - Heavy (aircraft ≥136,000 kg) 24 seconds
 - Medium (aircraft ≥7,000 kg and <136,000kg) 14 seconds
 - Light (aircraft <7,000kg) 4 seconds
- B. Runway Safety Areas (RSA) extends 76 meters from the center line of the runway. Aircraft waiting to cross a runway centerline stop outside the RSA and exit on the opposite side of the RSA when the crossing is complete.
- C. Taxi speeds on taxiways crossing runway centerlines is 15 kts.
- D. Aircraft waiting to cross an active arrival runway will begin crossing a runway after the landing aircraft has passed the intersection where the crossing will occur. The crossing aircraft will be clear of the RSA before the next arrival aircraft is 0.5 NM from the runway threshold.
- E. In TAAM aircraft crossing behind intersection departures consider the aircraft ahead of them as occupying the runway. They wait for the preceding aircraft to cross the runway and the first intersection, before crossing the runway themselves. Taxi speeds for these aircraft were increased to 35 knots while in the RSA to realistically model representative runway crossing times at the Airport.

These assumptions were reviewed and confirmed by the O'Hare Air Traffic workgroup.

1.2.1 Runway Crossing Results

This section contains the results of the runway crossings that are applicable to the 2018 With Project Assumptions. **Table I-6** lists the total runway crossings summarized by experiment and the total weighted annual average of runway crossings.

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Table I-6

2018 With Project Peak Month Average Day Total Runway Crossings Summarized by Experiment

Experiment	Runway Configuration	Active Crossings ^{1/}	Beyond LAHSO Point ^{2/}	Behind Intersection Departure ^{3/}	Totals
33	VFR-1 Parallel 9s	573	605	1,875	3,053
51	VFR-2 Parallel 9s	581	499	1,911	2,991
52	VFR-1 Parallel 27s	249	538	1,521	2,308
53	VFR-2 Parallel 27s	205	505	1,558	2,268
54	IFR Parallel 9s	1,453		2,069	3,522
55	IFR Parallel 27s	760	-	1,555	2,315
Annualized		392	484	1,644	2,520

^{1/} Taxiing aircraft crossing a runway that is currently in use for arrivals and/or departures where Air Traffic Control action is required.

Runway crossings that occur behind a LAHSO point while the LAHSO procedures are in use. Runway crossings that occur behind an intersection departure point.

Source: TAAM Plus Simulation Runs; Ricondo & Associates, Inc.
Prepared by: Ricondo & Associates, Inc.

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1.3 Aircraft Separation/Spacing

Table I-7 lists the in-trail separation values used in the VMC calibration runs and all subsequent VMC simulation experiments. These values are consistent with Standard FAA separation minima as found in the FAA Order 7110.65M, and were based on input provided by the FAA air traffic team. The shaded area of the table indicates those aircraft pairings that are eligible for Reduced Separation on Final criteria of 2.5 NM. The TAAM model allows special areas called sectors to be built which correctly define the area on the final approach where reduced separations of 2.5 NM are allowed.

Table I-7

In-trail Separation Values Used for VMC

	IN-TRAIL	SEPARA	TIONS (NM	1)	
	LEAD AIR				
TRAIL AIRCRAFT	HEAVY	B757	LARGE	SMALL+	SMALL
HEAVY	4.0	4.0	8 (0) +	3.0	3.0
B757	5.0	4.0	80A	G.0 ·	30
LARGE	5.0	4.0	3.0	8(0)	3.0
SMALL+	6.0	5.0	4.0	3.0	3.0
SMALL	6.0	5.0	4.0	3.0	3.0

Notes: HEAVY (> 255,000 pounds); B757; LARGE (> 41,000 pounds and <225,000 pounds); SMALL+ (>12,500 pounds and <41,000 pounds); SMALL (< 12,500 pounds). The shaded areas indicate those aircraft pairings that are eligible for Reduced Separation on Final criteria of 2.5 NM on final approach.

Sources: Automated Radar Terminal Systems Data and ORD ATCT; FAA Order 7110.65M; Ricondo & Associates, Inc. Prepared by: Ricondo & Associates, Inc.

Analysis was conducted using 25 days of Airport Noise Monitoring System (ANMS) data from July 2002. The analysis indicated that peak hourly arrival throughput rates met the same high levels as the simulation, however the sustained levels of the simulation were higher than those indicated in the ANMS data. Correspondingly, four (4) sensitivity tests were conducted setting in-trail spacing values in the final approach sector at 2.6, 2.7, 2.8, and 2.9 nautical miles respectively. An additional sensitivity test was conducted in which airspeeds on the final approach were set at 170 knots rather than being allowed to vary between 170 to 190 knots.

Comparing the arrival throughput rates of the sensitivity tests with those of the ANMS data, it was determined that in VMC an in-trail spacing of 2.8 nautical miles produced arrival rates consistent with those observed. Accordingly and consistent with a recommendation from the FAA's Third Party Consultant (TPC), in a memorandum dated January 7, 2004, in-trail spacing in final approach sectors associated with dedicated arrival runways are set to 2.8 NM in the 2002 baseline, future "no-action", and future "with project" simulation experiments.

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Table I-8 contains the minimum spacing values used during IMC in the simulation experiments. These values were identified through an analysis of ORD ARTS data conducted in June 2002. They represent the average observer values. The IMC spacing was reviewed by the FAA air traffic team and adjusted based on experience. As above, the adjusted IMC separations determined through the aforementioned procedure were verified during the simulation verification process, the results of which closely matched actual throughput by runway.

Table I-8

In-trail Spacing Values Used for IMC

	IN-TRAIL	SEPAR	ATIONS (N	M)	
22.00	LEAD A	RCRAFT			
TRAIL AIRCRAFT	HEAVY	B757	LARGE	SMALL +	SMALL
HEAVY	4.3	4.1	3.3	3.5	3.5
B757	5.1	4.1	3.2	3.4	3.4
LARGE	5.2	4.2	3.2	3.3	3.3
SMALL+	6.2	5.2	4.1	3.3	3.3
SMALL	6.7	5.2	4.1	3.4	3.4

Note: HEAVY (> 255,000 pounds); B757; LARGE (> 41,000 pounds and <225,000 pounds); SMALL+ (>12,500 pounds and <41,000 pounds); SMALL (< 12,500 pounds).

Sources: Automated Radar Terminal Systems Data and ORD ATCT; FAA Order 7110.65M; Ricondo & Associates, Inc. Prepared by: Ricondo & Associates, Inc.

In-trail separation for departures on common SIDS is 7.0 NM in-trail at the airspace boundary.

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1.4 TAAM Reporting

Delay calculations are prepared using data contained in TAAM report (.rep) and message (.msg) output files. The Total Airport Delay is an average of all flights and is calculated using data contained in a report file. Each flight's delay is the summation of the following five delay categories and is described below.

- 1. ORD Arrival Sequencing and Vectoring Air Delay is an average of all arrivals and is calculated using data contained in the report file (apt_delay{rwy/seq delays}).
- ORD Departure Ground Delay at ORD is an average of all departures. It is calculated using
 data contained in the report file and is the sum of taxi delays (taxi_usage{delay_time}) and
 runway delays (apt_delay{rwy/seq delays}).
- 3. ORD Arrival Ground Delay at ORD is an average of all arrivals, calculated using data contained in the report file, and is the sum of taxi delays (taxi_usage{delay_time}) and standoff delay (apt_standoff_delay{join_queue_time, leave_queue_time). Standoff delay is the difference between when an aircraft enters and leaves the standoff queue.
- 4. ORD Arrival Pre-Departure Ground Delay at Origin is an average of all arrivals and is calculated using data contained in the message (.msg) file. Flights experiencing this delay are denoted by the phrase, "Intrail delay at start of (delay) sec due to (flight number)".
- 5. ORD Departure Gate Delay at ORD is an average of all departures, calculated using data contained in the report file, and is the sum of positioning delay (apt_delay{pos_delays}) and gate delay (apt_delay{gate}).

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1.5 Peak Operations, Delay, and Travel Times

The following definitions describe each of the components shown in Tables I-9 through I-16:

- Operations and Terminations: Scheduled operations are the number flights in the timetable to be simulated. Processed operations are the number of flights actually simulated. The difference is the number of flights terminated during the simulation.
- Peak Operations: To describe peak operations one must first define the operational peak. The operational peak is the simulation period during which the highest number of operations occurs based on a rolling count.
- Rolling hour count: To do a rolling hour count of operations, each aircraft's time is first rounded down to the nearest ten minutes. All aircraft having the same rounded time are aggregated into a ten-minute "bucket." The number of aircraft contained in the first six time buckets (#1 through #6) is the first full hour count. The first rolling hour count is the number of aircraft contained in buckets #2 through #7. The remaining rolling hour counts are determined by summing groups of six ten-minute buckets until the last bucket is counted in a rolling hour. The time coinciding with the last bucket in the largest rolling hour count is identified as the peak hour.
- Rolling 15-minute count: To do a rolling 15-minute count of operations, each aircraft's time is first rounded down to the nearest five minutes. All aircraft having the same rounded time are aggregated into a five-minute "bucket." The number of aircraft contained in the first three time buckets (#1 through #3) is the first full 15-minute count. The first rolling 15-minute count is the number of aircraft contained in buckets #2 through #4. The remaining rolling 15-minute counts are determined by summing groups of three five-minute buckets until the last bucket is counted in a rolling 15-minutes. The time coinciding with the last bucket in the largest rolling 15-minute count is identified as the peak 15-minute period.
- Peak departure operations (rolling hour): This is the number of departures that occur during the peak departure period as identified in a rolling hour count of departures.
- Peak arrival operations (rolling hour): This is the number of arrivals that occur during the peak arrival period as identified in a rolling hour count of arrivals.
- **Peak total operations (rolling hour):** This is the number of operations that occur during the operational peak period as identified in a rolling hour count of all operations.
- Peak departure operations (rolling 15-minute): This is the number of departures that occur during the departure peak period as identified in a rolling 15-minute count of departures.
- Peak arrival operations (rolling 15-minute): This is the number of arrivals that occur during the arrival peak period as identified in a rolling 15-minute count of arrivals.
- Peak total operations (rolling 15-minute): This is the number of operations that occur during the operational peak period as identified in a rolling 15-minute count of all operations.

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Delay: Delay is the additional operating time attributable to any impediment to the free flow of aircraft through the system. Umimpeded travel time is the time it would take an aircraft to travel from Point A to Point B if it were the only aircraft in the system. Increases in the travel time from Point A to Point B as a result of interactions with other aircraft in the system are considered delays. Thus, total delay for any given aircraft is the difference between the actual time it takes the aircraft to get from Point A to Point B while interacting with other aircraft and the umimpeded time it would theoretically take the aircraft to get from Point A to Point B without other aircraft in the system.

For statistical purposes, this total delay was averaged across all aircraft moving through the system in the simulation day. Total delay is a combination of various key delay component, defined below, including departure gate delay, departure ground delay, arrival pre-departure ground delay, arrival ground delay, and arrival air delay.

- Departure gate delay: For departing aircraft, this delay is the extra time incurred after the aircraft is ready to push back from the gate due to other ground traffic preventing the movement.
- Arrival pre-departure ground delay: For arriving aircraft, this delay is the extra time incurred on the ground at the origin airport, after the scheduled departure time, due to a flow control program at ORD.
- Arrival ground delay: For arriving aircraft, this is the total delay incurred between the time the flight touches down on the runway at ORD and the time it reaches the arrival gate. Arrival ground delay includes taxi-in delay, standoff delay, and runway crossing delay.
- Departure ground delay: For departing aircraft, this is the total delay incurred between the time the flight completes its push back from the departure gate until it lifts off. Departure ground delay includes the sum of taxi-out delay, runway crossing delay, and runway queue delay.
- Arrival sequencing and vectoring air delay: For arriving aircraft, this is the total airborne delay incurred due to holding, vectoring, and speed control within the sequencing boundary in the vicinity of ORD. This delay is the result of sequencing actions taken by aircraft to ensure proper spacing on final approach to the arrival runways.
- Time in Operational Phase: The average time in operational phase describes the operating time of aircraft in each phase of operation. The various components of total operating time include arrival airborne time, arrival ground time, departure airborne time, and departure ground time.
- Arrival airborne time: For arriving aircraft, this is the time from when the aircraft departs the origin airport to when the aircraft touches down at ORD. It includes any sequencing or vectoring delay encountered at ORD as well as the unimpeded flying time between the origin airport and ORD.
- Arrival ground time: For arriving aircraft, this is any time spent on the ground. It includes any delay imposed at the origin airport, any ground delay (taxiing or queuing) encountered at ORD, and unimpeded taxi time at ORD.

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- **Departure airborne time:** For departing aircraft, this is the time from when the aircraft lifts off of the runway at ORD to when the aircraft arrives at the destination airport. It is essentially the unimpeded flying time between ORD and the destination airport.
- **Departure ground time:** For departing aircraft, this is the time spent on the ground at ORD. It includes any gate delay imposed at ORD, any ground delay (taxiing or queuing) encountered at ORD, and the unimpeded taxi time at ORD.
- Arrival runway violations: An arrival runway violation occurs when multiple aircraft occupy the same runway at the same time.
- Average unimpeded travel time: The unimpeded travel time describes the average operating time in each phase of operation. The various components of the operating phase include average unimpeded airborne time and average ground time. It does not include any delay.
- Average unimpeded airborne time: Average unimpeded airborne time is the average time from when the aircraft departs to when the aircraft touches down. It does not include any delay.
- Average unimpeded ground time: Average unimpeded ground time is the average unimpeded time spent on the ground. It does not include any delay.



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Average Time in Operational Phase (minutes)

Tables I-9 through I-14 contain statistics for all 2018 With Project TAAM Simulation multi-iterations

Table I-9 2018 VFR-1 Parallel 9s (Quads)

						-		Ope	rrations		-		èculorions			Peak (persons (Re	Sing Hour)			feel	4 Operations	(Ralling 15-Mi	limine)		Aveng	Delay per P	last of Open	stine (mission)	Delay per All Airport Operations (minutes)	Arrivale	Departures	Arrivat	Runery Violations
heration	Project Name	Sood Randomization Number Study Date	School Randomiz (Os/O	ir stien TA I) Ve	MM mies Sup	Scheduled Arrival Operation	Arrival Operation	Scheduled Departure a Operations	Processed Department Operations	Scheduled Processed Total Total Operations Operations	Flights Terminates During Denomine	Flights d Terminate During	Total Terminated	Fernance of Total	Peak Departure	Posk Depution Fea	Arrival Ar	enk tival Penk T	otal Penk Total	Pesk Departure	Peak Departur	Prok Arriva	Peak & Arrival	Peak Total	Peak Total	ORD OR	D Arrival	ORD Anival Di ground p	ORD manuse ORD Arrivs pound requireing	Total				
2	KORD_EIS_EXP33 KORD_EIS_EXP33	549467 04/02/0- 563476 04/02/0-		-	1 1.0	1687	1686 1687		1686 1687	3374 3372 3374 3374	1	1	2	0.06%	133		32 19	:30 256	5 14:20	41	12:40	Operations 42	17:20	76	17:20	0.6	origia O. I	0.4	ORD alidetry	Delay 4 1	142.3 14.8 157.1	132.8 15.2 147.9	Overlaps	Percenta
3	KORD_EIS_EXP33 KORD EIS EXP33	577485 04/02/04 703566 04/02/04			0.1 1	1687	1685	1687	1686	3374 3371	1	2	3	0.00%			38 19 34 19	:40 263 :40 259		40 39	14:00	43	14:25 17:20	79	17:20 9:30	0.6	0.0	0.4	3.8 3.6	4.2	142.5 14.8 157.2	132.9 15.4 148.3	15	0.5%
5	KORD EIS EXP33 KORD EIS EXP33	717575 04/02/04	On	2.0	0.1 1	1687 1687	1686	1687	1687 1687	3374 3373 3374 3371	0	3	3	0.03%		B 50 10 10		40 260	- would	45	13:45 8:30	43 42	14:25		20:25	0.7	0.0	0.4	3.5 3.6 3.7 3.6	4.0	142.5 14.7 157.2 142.5 14.8 157.3	132.9 15.0 147.9 132.8 15.3 148.1	8	0.5%
7	KORD_EIS_EXP33	619512 04/02/04 633521 04/02/04			0.1 1	1687 1687	1684		1686 1687	3374 3370 3374 3374	1 0	3	4	0.12%	136	14:20 1	33 19	40 260	14:20	46	13:45		9:25	75	9:25 20:25	0.6	0.0	0.4	6.1 3.4 3.7 3.7	4.2	142.2 14.8 157.0 142.5 14.8 157.3	132.9 15.6 148.5 132.9 15.2 148.1	10	0.6%
9	KORD_EIS_EXP33 KORD_EIS_EXP33	647530 04/02/04 661539 04/02/04	On On	2.0	0.1 1	1687	1682 1682	1687 1687	1687 1686	3374 3369 3374 3368	0	5	5	0.15%	134	19:20 1	33 19:	30 263		44	13:40 13:40	41	14:25 17:25		20:20 17:25	0.6		0.4 3	9 3.6	4.3	142.5 14.8 157.3 142.4 14.8 157.2	132.9 15.5 148.4	8	0.5%
10	KORD_EIS_EXP33 KORD EIS EXP33	675548 04/02/04 689557 04/02/04		2.0	0.1 1	1687 1687	1685	1687	1687	3374 3372	0	2	2	0.18%			35 19: 32 19:			45	13:45	43 45	11:25	76	20:25	0.6	0.0	0.4 3	.5 3.6 .8 3.7	4.0	142.3 14.8 157.0	132.7 15.0 147.7	13	0.8%
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	007227	O.	2.0	V.1 1	1087	1080	1687	1685	3374 3371	2	1	3	0.09%	131	20:10 1	34 19:	40 259	20:20	41	8:25	41	20:25	76	17:20	0.5	0.0	0.4 4	.0 3.6	4.2	142.5 14.7 157.3 142.6 14.8 157.3		7	0.4%

Note: This table contains relevant statistics for every iteration of the Experiment 33 multi-run.

Source: OMP EIS TAAM Simulation Output Files Prepared by: Ricondo & Associates, Inc.

Table I-10 2018 VFR-2 Parallel 9s (Trips)

								Open	tinu		_	Te	missions		_	Prok	Operations (Rail	ing Hour)			Pos	à Operations	(Rolling 15-Min	note)		Aven	ge Delay per Phase	of Operati	ion (minutes)	Average Delay per All Airport Operations (triusnes)	Arrenge Time in O	Personer		d Ramony Victorious
Beration	Project Name	Seed Randomization Number	Study Date	Schedule Randomizațio (Os/Off)	TAAM Venion Ser	Scheduled Arrival	Processed Arrival	Scheduled Depenus	Processed Departure	Scheduled Processed Tital Total	Flights Terminated During	Plights Terminated During	Total Terreleased	Total Terminated	Pank Departure	Pesk Departure Per	Pi ak Artival An	real fired Penk Ti	ral Prob Tiral	Ped	Prak	Park Annie	Pest			ORD C	RD Arrival Arri	to or	MD sense ORD Arrival most sequencing	Total			· Constant	District Control
1	KORD_EIS_EXP51	549467	04/05/04	On	2.0.1 1	1687	1686	1687	1684	3374 3370	Depenture	Arrival	Flights	Plights	Operations	Time 0	perations Ti	me Operati	ons Time	Operation	a Time	Operation	Time	Operations	Time	at ORD	orizin OR	D O	ay at and vectoring	Airpon				
2	KORD EIS EXP51	563476		On	2.0.1 1	1687	1686	7.7.5		2007 10000	3		4	0.12%	136	14:20	129 19:	:10 258	20:10	43	12:40	36	14:20	76	20:20	0.5	0.1 0.	5 2	9 51	4.5	144 A 140 160 2	Airbonse Greend Treal	Overlape	Percentage
3	KORD EIS EXP51			On	2.0.1 1					COLUMN TOWN	4	1	5	0.15%	129	20:10	133 20:	20 260	20:20	42	18:30	36	16:25	76	18:30	0.6	0.0 0.	2 2	1 5.4	4.3	144.4 14.9 159.3	132.7 14.6 147.2	12	0.7%
4	KORD_EIS_EXP51		04/05/04	On	2.0.1 1			OGCU		3374 3364	6	4	10	0.30%	134	14:20	132 19:	30 253	14:20	42	16:15	35	19:40	73	***	0.5	0.0 0.4			4.7	144.7 14.8 159.5	132.3 14.8 147.1	16	0.9%
5	KORD_EIS_EXP51		04/05/04	On	2.0.1 1	1687				3374 3367	7	0	7	0.21%	132	20:00	134 20:	30 265	20:10	42	12:35	36	14:25	74		0.6	0.1 0.5		2	4.4	144.3 14.7 159.1	132.5 14.5 146.9	10	0.6%
6	KORD EIS EXP51	619512		On	2.0.1 1					3374 3370	3	1	4	0.12%	132	19:10	134 20:	20 265	20:20	44	12:40	36	14:30	73		0.5	0.0 0.4		.8 5.1	4.5	144.4 14.8 159.2			0.8%
7	KORD EIS EXP51	633521	04/05/04	011		1687				3374 3371	2	1	3	0.09%	134	14:20	134 19:	50 259	20:20	43	13:40	36	20:35	73	18-35	0.5			10000	4.6	144.4 14.8 159.2		17	1.0%
8	KORD EIS EXP51	647530	04/05/04	On	2.0.1 1	1687	1687			3374 3372	2	0	2	0.06%	134	20:10	132 20:		7.302.20	42	18:35	35	19:20	75	9:30	0.0	0.1 0.4		_	4.5	143.9 14.8 158.7	132.7 14.9 147.6	14	0.8%
9	KORD EIS EXPSI			On	2.0.1 1	1687	1686	1687		3374 3368	5	1	6	0.18%	131		132 20:			45	9:30	25	20:35	13	5000	0.5	0.0 0.4		-	4.9	144.7 14.8 159.5	132.9 14.9 147.8	12	0.7%
10	KORD_EIS_EXP51	661539		On	2.0.1	1687	1687	1687	1685	3374 3372	2	0	2	0.06%			133 20:		20:20	42	12:45	33		77	9:30	0.5	0.0 0,4		7.0	4.7	144.7 14.8 159.4	132.7 14.6 147.2	17	1.0%
11		675548	04/05/04	On	2.0.1 1		1686	1687	1685	3374 3371	2	1	3	0.09%			132 19:			41		33	20:30	72	12:45	0.6	0.0 0.5	3.		4.8	144.7 14.9 159.5	132.8 14.7 147.5	4	0.2%
	KORD_EIS_EXP51	689557	04/05/04	On	2.0.1 1	1687	1687	1687	1680	3374 3367	7	0	7	0.21%		231271 3	31 20:			43	20:20 9:30	35	20:40	120		0.6	0.0 0.5	2.8	2 5.3 8 5.4		144.5 14.8 159.3 144.7 14.8 159.5	132.7 14.9 147.6	9	0.5%

Note: This table contains relevant statistics for every iteration of the Experiment 51 multi-run.

Source: OMP EIS TAAM Simulation Output Files Prepared by: Ricondo & Associates, Inc.

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Table I-11 2018 VFR-1 Parallel 27s (Quads)

						-	-	Оренивая	-	_	_	Ter	minutions		_		tak Operations (I	Robing How)			Pe	ak Operation	(Rolling 15-Mi	(mir)		^	verage Delay p	ser Phase of O	peration (missues		Delay per All Airpon Operations (minutes)	Arrivale	Depution	Ameal II	Survey Violations
heration.	Project Name	Secil Randomization Number	Study Date	Schedule Randomization (Ou/Ot)	TAAM Version Sign	Scheduled Arrival Operations	Processed Arrival Operations	Scheduled Proces Departure Depart	and Schedule are Total	of Processed Total	Flights Terminated During	Flights Terminated During	Total Terminated	Fernance 6 Total Terminated	Penk Departure	Peak Departure	Peak Amiral	Peak Arrival Pea	Total Peak Tim	Peak at Departs	Peak or Department	Post Arriv	Peak cal Agricul	Seek Total		ORD Departure	ORD Arrivo	ORD al Arrival r ground	ORD Departer OR ground sec	D Arrival purnelly	Total				
1	KORD_EIS_EXP52	535458	04/05/04	On	2.0.1 1	1687	1682	1687 168	5 3374	3367	Depurous	Amival	Flights	Flights	Operations	Time	Operations	Time Ope	miene Time	Operation	ons Time	Operation	is Time	Operation	i Time	as ORD	greated delay origin	at delay as	delay at and	vectoring	Airport	Land 47 47 47			
2	KORD_EIS_EXP52	549467	04/05/04	On	2.0.1 1			1687 168				2		0.21%	130				67 19:20	41	8:25	40	19:15	75	19:25	0.5	0.2	0.7	37	4.3	4.7	143 P 16 O 160 2	Autome Ground Total	Overlaps	Percentage
3	KORD_EIS_EXP52	563476	04/05/04	On	2.0.1 1			1687 168		0000	0	9	9	0.27%			143 1				8:30	42	19:00	77	20:20	0.5	0.1	0.7	4.6	4.3	4.7	142.8 15.9 158.7	132.9 15.2 148.1	6	0.4%
4	KORD_EIS_EXP52	577485		On	2.0.1 1			1687 168		3366	0	8	14	0.41%					77 19:20	43	20:20	40	19:05	81	20:20	0.6	0.1	0.6	3.9	4.3		142.8 15.9 158.7		4	0.2%
5	KORD EIS EXP52	591494		On	2.0.1 1	0.44		1687 168	207.0	3363	0	8	8				143 1				8:30	41	11:25	77	20:15	0.5	0.0			1.7	4.0	142.8 15.8 158.6	10.000	8	0.5%
6	KORD EIS EXP52	605503	04/05/04	On	2.0.1	0.000	-	1687 168	0.500		3	8	11						73 19:20		16:35	40	14:15	75	19:15	0.4	0.0	411	3.4	****	4.2	142.8 15.8 158.7	132.9 14.9 147.8	6	0.4%
7	KORD EIS EXP52	619512		On	2.0.1 1	0.22		1687 168	10000	3369	0	5	5						73 19:30		8:35	42	19:15	78	20:20	0.4	0.0		3.5	1.4		143.1 15.9 159.0	132.7 14.7 147.4	8	0.5%
8	KORD EIS EXP52	633521		On	2.0.1		5.555	1687 168		3368 3366	0	6	6						74 19:20		16:40	42	19:10	78	20:20	0.6	0.1		3.8 4	10.4		142.8 15.9 158.7	F. 100- F. 24100	4	0.2%
9	KORD EIS EXP52	647530		-	2.0.1 1			1687 168			1	7	8	0.24%					59 19:30	44	20:20	41	19:10	83	20:20	0.4	0.1	0.7	4.0 4				the same a sort	7	0.4%
10	KORD EIS EXP52	661539			2.0.1 1	5000			0 100.00	3364	2	8	10	0.30%			148 1			40	15:30	41	17:20	76	20:20	0.5	0.1	0.7		4.3				7	0.4%
11	KORD EIS EXP52	675548		On	2.0.1 1			5100 . 457			0	5	5	0.15%	133	20:10	146 F	9:20 2	78 19:20	46		41	19:20	76	20:20	0.5	0.1	0.7						5	0.3%
		2,3210		OII	6.0.1	100/	1681	1687 1685	3374	3366	2	6	8	0.24%	132	19:20	140 1	9:10 27	0 19:20	42	8:30	41	20:20	79	20:20	0.5	0.2	0.0	4.0 4	4		142.6 15.8 158.4	A	5	0.3%

Note: This table contains relevant statistics for every iteration of the Experiment 52 multi-run.

Source: OMP EIS TAAM Simulation Output Files Prepared by: Ricondo & Associates, Inc.

Table I-12 2018 VFR-2 Parallel 27s (Trips)

						10		A D	Average Time is Operational Phase (minum)
		Seed Sche	Dobile	Operations Scheduled Processed Scheduled Processed Scheduled Processed	Terminations Fights Fights Ferce Terminated Terminate	Peak Optivities (Relling Hear)	Feak Operations (Zalling 15 Minute)		Alipon erricina Arrivals Departures Arrival Bussey Violations
heration	Project Name	Number Study Date (Onl	MANN Version Stee	Arrival Arrival Departure Departure Total Total	During During Terminated Term	insted Departure Departure Feak Arrival Arrival Beak Total Park Total	Prot. Prot. Prot. 1	Departure prodeparture ground ground superscing	final
1	KORD_EIS_EXP53	535458 04/03/04 O	On 2.0.1 1	1687 1681 1687 1686 3374 3367	Departure Arrival Flights Fil-	ghts Operations Time Operations Time Operations Time	Operations Time Operations Time Operations Time	are delay ground delay at delay at delay at and vectoring A	aport .
2	KORD EIS EXP53	549467 04/03/04 O	On 2.0.1 1	1007 1007 1000 3374 3307	1 6 7 0.2		41 18:45 34 20:20 72 18:40	05 01 06 30 59	elay Althorne Ground Total Airborne Ground Total Overlaps Percessage
3	KORD EIS EXP53	563476 04/03/04 O		1687 1678 1687 1687 3374 3365 1687 1678 1687 1687 3374 3365	0 9 9 0.2		41 13:50 34 20:10 72 17:25	0.6 0.1 0.7 2.6 63	5.0 144.7 15.8 160.5 132.2 14.1 146.3 3 0.2%
4	KORD EIS EXP53	577485 04/03/04 O		1007 1007 3374 3303	0 9 9 0.2	7% 135 19:20 130 20:20 261 20:10	45 10.05 46 10.05 46 10.05	0.0 0.0 0.0	5.1 145.2 15.8 161.0 132.6 13.7 146.3 6 0.4%
5	KORD EIS EXP53	591494 04/03/04 O	On 2.0.1 1	1007 1007 3374 3300	0 8 8 0.24	4% 134 20:10 131 19:40 258 20:10	44 9:30 35 19:20 75 9:30	5.0 0.7 2.0 J.0 4	4.9 144.8 15.8 160.6 132.7 13.8 146.5 5 0.3%
6	KORD_EIS_EXP53	605503 04/03/04 O		1007 1007 1007 1007 33/4 3300	0 8 8 0.24	4% 133 20:10 128 20:10 261 20:10	43 15:30 35 20:10 74 15:30	2.7 0.0 3	5.1 144.9 16.0 160.8 132.6 14.0 146.6 6 0.4%
7	KORD EIS EXP53	619512 04/03/04 O	On 2.0.1 1	1687 1676 1687 1686 3374 3362	1 11 12 0.36		44 20.10 25 10.00 27 77.10	0.5 0.1 0.8 3.0 5.4 4	4.9 144.3 15.9 160.3 132.5 14.1 146.6 2 0.1%
8	KORD EIS EXP53	633521 04/03/04 O	On 2.0,1 1	1687 1675 1687 1687 3374 3362	0 12 12 0.36	6% 132 19:30 128 20:40 258 19:30	15 020 21 220 75 20.10	0.6 0.1 0.9 2.6 5.9 5	5.0 144.9 16.0 160.9 132.6 13.7 146.3 6 0.4%
9	KORD EIS EXP53	647530 04/03/04 Or	On 2,0.1 1	1687 1681 1687 1687 3374 3368	0 6 6 0.18			0.4 0.0 0.6 3.1 5.7 4	1.9 144.8 15.7 160.5 132.5 14.1 146.6 4 0.2%
10	KORD EIS EXP53		On 2.0.1 1	1687 1678 1687 1685 3374 3363	2 9 11 0.33		40 40.00	0.5 0.1 0.9 2.7 6.1 5	5.1 145.2 16.0 161.1 132.6 13.8 146.5 8 0.5%
11	KORD EIS EXP53	661539 04/03/04 Or 675548 04/03/04 Or	On 2.0.1 1 On 2.0.1 1	1687 1681 1687 1687 3374 3368 1687 1682 1687 1685 3374 3367	0 6 6 0.18 2 5 7 0.21	8% 127 20:10 129 19:40 254 19:30	43 8:25 36 11:30 74 8:25	0.5 0.1 0.6 3.1 5.9 5 0.4 0.0 0.6 2.8 6.5 5 0.4 0.0 0.7 2.6 5.6 4	5.1 144.8 15.8 160.6 132.6 14.1 146.7 4 0.2% 5.2 145.3 15.7 161.0 132.5 13.8 146.3 5 0.3% 1.7 144.6 15.8 160.5 132.5 13.5 146.0 3 0.2%

Note: This table contains relevant statistics for every iteration of the Experiment 53 multi-run

Source: OMP EIS TAAM Simulation Output Files Prepared by: Ricondo & Associates, Inc.

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Appendix D

O'Hare International Airport

Average Time in Operational Phase (minuses)

Table I-13 2018 IFR Parallel 9s

						-	-	Operations		-	-	Ter	minations.		_		at Operation (Rolling Hou)			Peză	Operation (R	olling (3-Min	sie)		Ave	rage Delay pe	Phase of Op	seration (minutes)	All Aisper Operation (minutes)	Arrivals	Departures	Arrival B	turn av Violetions
fication	2. Project Name	Seed Randomization Number Study	Ra Ny Diane	Schröde udomizacina (Ow/Off)	TAAM Venico Step	Scheduled Arrival Operations 1	Processed S Arrival I	Scheduled Processing Department Department Operations	and Schudule	d Processed Total	Flights Terminated During	Flights Tirminated During	Total Terminated	Percentage of Tetal Terremated	Peak Departure	Prok Departure	Peak Arrival	Penk Amiral Per	à Total Pesà Toui	Pesk Departure	Peak Departure	Peak Anival	Penk Arrival 2	Prode Toron	Peak Total	ORD Departure	ORD Arrival	OND Amost	Departer ORD As ground reques	rival				
1.	KORD_EIS_EXP54_011204	535458 04/0	06/04	On	2.0.1 1	1687	1680	1687 168	5 3374	3365	2	Amrai 7	Flights.	O 2704	Operations	Time	Operations	Time Op	totions Time	Operations	Time	Operations	Time 6	Operations	Time	at ORD	arigia	ORD	ORD air del	ming Airport by Delay	Althoras Ground Total	Althor Court You	District Co.	
2	KORD_EIS_EXP54_011204	549467 04/0	06/04	On	2.0.1 1	A 10 m fee		1687 168	10 2500	3370	1	,	9	0.27%					32 19:00		20:25	30	21:30	62	20:25	0.6	14.3	1.5	9.9 14	20.2	153.7 29.4 183.1	133.0 22.4 155.4	Dvestaps .	O 70/
3	KORD_EIS_EXP54_011204	563476 04/0	06/04	6.70	2.0.1 1		1682	1000		3369	1	3	4	0.12%			116 2				19:05	30	21:45	63	19:10	0.6	14.1	0.6		21.1	153.9 28.5 182.4		12	0.7%
4	KORD EIS EXP54 011204	577485 04/0	06/04		2.0.1 1		1680			3367	0	2	3						32 19:20		20:30	31	15:10	63	20:30	0.5	13.8	200	10.9 13.3	19.6	152.8 28.1 180.9		10	0.4%
5	KORD EIS EXP54 011204	591494 04/0		2.00	2.0.1 1		1669		2 3374		0	7	7						35 16:50		20:35	31	15:15	63	20:35	0.4	14.1		10.9 14.3		153.5 29.2 182.8		10	0.6%
6	KORD EIS EXP54 011204	605503 04/0				1687			4 3374	5500	5	18	23	0.68%		100	2.00		28 19:50		22:35	30	21:40		19:35				15.8 14.3			COUNTY THE THEFT	8	0.5%
7	KORD EIS EXP54 011204	619512 04/0		-	2.0.1		1685				3	3	8	0.24%					32 16:40		11:45	30	21:45		20:40			2.2				and the same of the same of	12	0.7%
8	KORD EIS EXP54 011204	633521 04/0			7295	2000	678		3374		0	2	2	0.06%	124	16:50	115 2	1:40 2	33 21:00				21:45					0.5			152.7 30.2 182.9		10	0.6%
9	KORD EIS EXP54 011204	647530 04/0							3374		1	9	10	0.30%	121	16:40	117 1	9:20 2	31 21:10	34			21:45		19:15		14.5	1.5	C. 100		153.9 29.2 183.1	and and an inter-	8	0.5%
10	KORD EIS EXP54 011204	675548 04/0					677 1				0	10	10	0.30%	122	21:20	114 2	1:40 2	35 21:20	34					20:40		13.8		2000		152.6 29.7 182.3		7	0.4%
11	KORD_EIS_EXP54_011204						686 1				2	1	3	0.09%	119	17:00	116 2	1:40 2:	32 19:30	35	18:55	500	77.1		18:55	0.4	15.1	0.0			152.0 28.0 179.9	133.1 22.6 155.6	5	0.3%
	KOID_EIS_EAF34_011204	689557 04/00	10/04	On 2	2.0.1	1687	679 1	687 1686	3374	3365	1	8	9	0.27%	120	21:10	116 2	0:50 2			20:40	25				0.4		0.6	13.4 13.3		152.8 29.5 182.2	133.0 25.9 158.9	16	0.9%
																				33	20.40	31	13.03	03	19:03	0.6	13.5	1.8	11.9 13.5	20.6	153.0 29.0 182.0	133.0 24.5 157.5	5	0.3%

Note: This table contains relevant statistics for every iteration of the Experiment 54 multi-run.

Source: OMP EIS TAAM Simulation Output Files Prepared by: Ricondo & Associates, Inc.

Table I-14 2018 IFR Parallel 27s

																															Average	Average Time is O	serational Phase (minutes)		
						-		Opens	design .				orminations.		_	Pe	nk Operation	u (Rolling Hou	9	_		Peak O	persion (f	tolling 15-Min	P()	_	A	erage Delay per	hase of Open	mins (minetra)	All Airpen Operations (missues)	Anivala	Departures	Arrival	Emway Violations
Iteration	Project Name	Sted Ratifernization Number	Shady Date	Schedule Randomization (On/Off)	TAAM Version St	Schedul Arrival en Operation	ed Processed I Arrival us Operation	Scheduled Departure Operations	Processed Departure Spensions	Scheduled Processed Total Total Commission Operations	Plights Terminates During Dentature	Plights # Terminated During Arrival	Total Terminated	Fercenage a Total Terminated	Peak Departure	Fest. Departure	Pesk Arrival	Prak Arrival	Peak Total 1	Penk Total	Prok Depurure	Pask Departure Pr	wak Arrival	Peak Arrival	Peak Total	Penk Total	ORD Departure gare delay	ORD Arrival prodepurture ground delay as	Arrival D ground :	ORD reparture ORD Armed present sequencing	Tiral				
2	KORD_EIS_EXP55_040204 KORD_EIS_EXP55_040204	535458 549467	04/05/04	On On	2.0.1 1	1 1687 1 1687	2000		1686 1687	3374 3368 3374 3369	1 0	5	6	0.18%	121 121	20:40				20:40 20:30	33	20:25	31	21:35	Operations 61	20:35	0.5	14.9	0.7	8.5 13.6	Deby 19.1	Attorne Ground Total 153.0 32.1 185.1	Airborne Ground Tenal 132.2 20.7 152.9	Overlaps 6	Percenage 0.4%
4	KORD_EIS_EXP55_040204 KORD_EIS_EXP55_040204	563476 577485		On On	2.0.1 1	1 1687			m	3374 3371 3374 3367	1 0	2 7	3 7	0.09%		20:30	116	20:00	229 2	20:30	7.0	9:40	5.0	20:30	60	20:30 14:50	0.4	13.9 14.6	411	8.5 12.0 8.2 13.6	17.7 18.8	151.3 31.0 182.3 153.0 31.7 184.6	132.2 20.6 152.9		0.3%
6	KORD_EIS_EXP55_040204 KORD_EIS_EXP55_040204	591494 605503	04/05/04 04/05/04	On On	2.0.1 1	1687	1003			3374 3369 3374 3369	1	4 5	5	0.15%	121	9:40	117	20:00	232 2	20:30	34	18:35 18:30 9:30	31	21:35 19:40	61	20:30 18:30	0.5	14.9 14.1		9.3 13.7 8.0 14.3	19.5 18.8	152.9 32.0 184.9 153.6 31.2 184.9	132.3 21.5 153.8		0.4%
8	KORD_EIS_EXP55_040204 KORD_EIS_EXP55_040204	633521	04/05/04 04/05/04	On On	2.0.1 1	1687 1687			1686 1687	3374 3370 3374 3367	0	3 7	4	0.12%	120	10:00	116	19:40 19:50	231 2	20:30	34	9:50 9:50 20:55		21:35	15.5	21:25	0.5	13.8	0.7	8.9 14.4 12.6 11.8		153.7 30.9 184.6 151.0 31.5 182.5		6	0.4%
10	KORD EIS EXP55 040204 KORD EIS EXP55 040204		04/05/04 04/05/04		2.0.1 I	1687 1687	1683			3374 3366 3374 3370	0	7	8	0.24%	123	20:10	117	19:30	237 2	20:10	33	19:30		19:05 20:20	63	19:30	0.7	14.8	0.8	9.2 12.9 8.1 11.5	18.8 17.8	152.2 31.3 183.5 150.6 32.0 182.6		3	0.2%
	KORD_EIS_EXP55_040204	675548	04/05/04	On	2.0.1 1	1687	1681	1687	685	3374 3366	2	6	8	0.24%		17:00				2121		18:30 9:40	31	21:45 20:30		18:55 19:20	0.5	14.8	223 (9.5 13.0 6.7 13.3		152.4 32.0 184.4 152.6 31.5 184.1		3	0.2%

Note: This table contains relevant statistics for every iteration of the Experiment 55 multi-run.

Source: OMP EIS TAAM Simulation Output Files Prepared by: Ricondo & Associates, Inc.

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Preliminary Draft
For Discussion Purposes Only

O'Hare International Airport

Table I-15

2018 With Project Multi-Iteration Summary

This table contains averages over each experiment's multi-run. The "lumped" average delays and operational phase times were computed by adding times associated with all eleven iterations of the multi-run and dividing by the total of aircraft operations simulated in all eleven iterations. The peak operations shown are straight averages of the eleven iterations.

												Average Delay per	Average Unimpeded Travel Times (minutes)						Average Time in Operational Phase (minutes)						
		Peak Operations (Rolling Hour)			Peak Operations (Rolling 15-Minute)			All Airpor Operation					All Airport Operations (minutes)	Arrivals			Departures			Arrivals				5	
	Experiment	Peak Departure Operations		al Peak Total Operations	Peak Departure Operations			ORD Departure gate delay at ORD	ORD Arrival predeparture ground delay at origin	ORD Arrival ground delay at ORD	ORD Departure ground delay at ORD	ORD Arrival sequencing and vectoring air delay	Tuble								Airivais			Departure	,
	33	132	134	260	42	42	76	0.6	0.0	0.4			Total Airport Delay	Airborne		Total	Airborne	Ground	Total	Airborne	Ground	Total	Airborne	Ground	Total
	51	133	132	261	43	36	74	0.5	0.0	0.4	3.8	3.6	4.2	138.9	14.4	153.2	132.8	10.9	143.8	142.4	14.8	157.2	132.8	15.3	
AVERAGE	52	135	144	272	43	41	77	0.5	0.1		3.0	5.3	4.6	139.2	14.4	153.6	132.6	11.2	143.8	144.5	14.8	159.3			148.1
3	53	134	129	259	43	35	74	0.5	1.0	0.7	3.8	4.3	4.7	138.5	15.1	153.6	132.8	11.0	143.8	142.8	15.9		132.6	14.7	147.3
	54	121	116	233	34	30	63		0.1	0.7	2.9	5.9	5.0	139.0	15.1	154.0	132.6	10.6	143.1	144.9		158.7	132.8	15.3	148.0
	55	121	116	232	34	31		0.5	14.2	1.2	11.7	13.7	20.7	139.5	13.7	153.2	133.0				15.8	160.7	132.6	13.9	146.4
	400.045.74					31	61	0.5	14.4	0.7	9.0	13.1	18.8	139.3	16.5	155.8	132.2	12.0 11.7	145.1 143.9	153.2 152.4	29.0 31.5	182.2 183.9	133.0 132.2	24.3 21.3	157.3 153.4
1	Annualized	133	135	262	42	38	74	0.5	1.4	0.6	4.1	5.6	6.1	138.8	14.9	153.7	132.7	11.0	143.7						
Thi	s table contains eac	ch experimen	t's median	run as taken	from the elec	uan itanatia.		to!								12011	152.7	11.0	143.7	144.4	16.9	161.3	132.7	15.5	148.2
			c o meaning	rui us taken	nom the ele	ven nerano	ns of each m	uiti-run.																	
1	33	131	138	263	40	43	79	0.6	0.0	0.4															
l	51	132	134	265	44	36	73	0.5	0.0		3.8	3.6	4.2	138.9	14.4	153.3	132.9	11.0	143.8	142.5	14.8	157.2	132.9	52.5	2.22
	52	138	148	279	40	41	76	0.5		0.4	3.1	5.2	4.6	139.2	14.4	153.6	132.7	11.2	143.9	144.4	14.8	159.2		15.4	148.2
	53	133	130	261	44	35	75	0.6	0.1	0.7	3.7	4.3	4.6	138.5	15.1	153.6	132.7	11.0	143.7	142.8	15.8		132,7	14.8	147.6
	54	120	116	235	33	31	63		0.1	0.9	2.6	5.9	5.0	139.0	15.1	154.0	132.6	10.5	143.1			158.6	132.7	15.2	147.9
	55	116	116	229	34	30		0.6	13.5	1.8	11.9	13.5	20.6	139.4	13.8	153.2	133.0	12.0		144.9	16.0	160.9	132.6	13.7	146.3
		110	110	243	34	30	60	0.7	14.6	0.6	8.2	13.6	18.8	139.4	16.5	155.9	132.3	11.7	145.0 144.0	152.9 153.0	29.0 31.7	182.0 184.6	133.0 132.3	24.5	157.5
	Annualized	133	138	266	41	38	74	0.5	1.4	0.7	4.0	5.6	6.1	138.8	14.9	153.8	132.7	11.0	143.7					20.5	152.8
Thi	s table shows the d	ifferences bet	ween the a	verages of th	e multi-run :	and the med	lian runs.									64440	124.1	11.0	143.7	144.4	17.0	161,4	132.7	15.5	148.2
	33	1	-4	-3	2	-1	-3	0.0	0.0	0.0	0.0		2.7												
	51	1	-2	-4	-1	0	1	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	-0.1	
	52	-3	-4	-7	3	0	1	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	-0.1	0.0	-0.2	0.1	0.0	0.1	-0.1		-0.1
	53	1	-1	-2	-1	0	-1	-0.1		0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1			-0.1	-0.3
				-2	1	-1	0	-0.1	0.0	-0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.1	0.1	0.1
	54	1	0	~4				-1/-1	0.7	-0.7	-0.2	0.2	0.0	0.1	-0.1	0.0	0.0	0.0	0.0	0.3		-0.2	0.0	0.2	0.1
		5	0	3	o	1	1	-0.2	-0.2		0.0									0.3	0.0	0.3	0.0	-0.2	-0.2
	54 55	5			ō	Í	1			0.0	0.9	-0.5	0.0	-0.1	0.0	-0.1	-0.1	0,0	-0.1	-0.6	-0.1	0.3 -0.7	0.0	-0.2 0.7	-0.2 0.6
	54 55 ifference (Average		ō		ó	í	i				0.9			-0.1	0.0										
	54 55	1 5			i	0	0				0.9			-0.1	0.0										

Source: OMP EIS TAAM Simulation Output Files Prepared by: Ricondo & Associates, Inc.

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Table I-16

Peak Month Average Day (PMAD) Conversion to Average Annual Day (AAD)

This table contains the peak month average day (PMAD) delays and travel times averaged over each experiment's multi-run as reported in Table I-15.

							Average Delay per		Average	Unimpeded	Travel Times	(minutes)		-	Average Time in Operational Phase (minutes)						
		Average Delay per Phase of Operation (minutes)					All Airport Operations (minutes)	Arrivals			Departures			Arrivals			Departures				
	Experiment	ORD Departure gate delay at ORD	ORD Arrival predeparture ground delay at origin	ORD Arrival ground delay at ORD	ORD Departure ground delay at ORD	ORD Arrival sequencing and vectoring air delay	Total Airport Delay	Airborne	Ground	T1								Departures			
- 1	33	0.6	0.0	0.4	3.8	3.6	4.2	138.9		Total	Airborne	Ground	Total	Airborne	Ground	Total	Airborne	Ground	Total		
- 1	51	0.5	0.0	0.4	3.0	5.3	4.6	139.2	14.4	153.2	132.8	10.9	143.8	142.4	14.8	157.2	132.8	15.3	148.1		
	52	0.5	0.1	0.7	3.8	4.3	4.7			153.6	132.6	11.2	143.8	144.5	14.8	159.3	132.6	14.7	147.3		
PMAD	53	0.5	0.1	0.7	2.9	5.9	5.0	138.5	15.1	153.6	132.8	11.0	143.8	142.8	15.9	158.7	132.8	15.3	148.0		
S	54	0.5	14.2	1.2	11.7	13.7	20.7	139.0	15.1	154.0	132.6	10.6	143.1	144.9	15.8	160.7	132.6	13.9	146.4		
-	55	0.5	14.4	0.7	9.0	13.1	18.8	139.5	13.7	153.2	133.0	12.0	145.1	153.2	29.0	182.2	133.0	24.3	157.3		
					2.0	13.1	10.0	139.3	16.5	155.8	132.2	11.7	143.9	152.4	31.5	183.9	132.2	21.3	153.4		
1	Annualized	0.5	1.4	0.6	4.1	5.6	6.1	138.8	14.9	153.7	132.7	11.0	143.7	144.4	16.9	161.3	132.7	15.5	148.2		
C	his table contains the conversion factor of	ne annual average 96%.	e day (AAD) de	elays and tra-	vel times. T	hey were com	puted by multiplyin	g the PMA	D values i	n the abov	e table by a										
1	33	0.6	0.0	0.4	3.6	3.4	4.0	120.0	14.7												
	51	0.5	0.0	0.4	2.9	5.0		138.9	14.4	153.2	132.8	10.9	143.8	142.3	14.8	157.0	132.8	15.1	147.9		
	52	0.5	0.1	0.6	3.6	4.1	4.4	139.2	14.4	153.6	132.6	11.2	143.8	144.3	14.8	159.1	132.6	14.6	147.2		
AAD	53	0.4	0.1	0.7	2.8	5.7	4.5	138.5	15.1	153.6	132.8	11.0	143.8	142.6	15.8	158.4	132.8	15.1	147.2		
3	54	0.5	13.6	1.1	11.3		4.8	139.0	15.1	154.0	132.6	10.6	143.1	144.6	15.8	160.4	132.6	13.1			
	55	0.5	13.8	0.6	8.7	13.2	19.8	139.5	13.7	153.2	133.0	12.0	145.1	152.7	28.4	181.1	133.0		146.3		
- 1		***	13.0	0.0	8.7	12.6	18.1	139.3	16.5	155.8	132.2	11.7	143.9	151.9	30.9	182.8	132.2	23.8	156.8		

14.9

138.8

153.7

132.7

11.0

143.7

5.8

5.4

Source: OMP EIS TAAM Simulation Output Files

0.5

1.3

0.6

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OMP Simulation Data Package 2018 With Project

April 2004 DRAFT

132.2

132.7

182.8

161.0

30.9

16.9

151.9

144.2

20.9

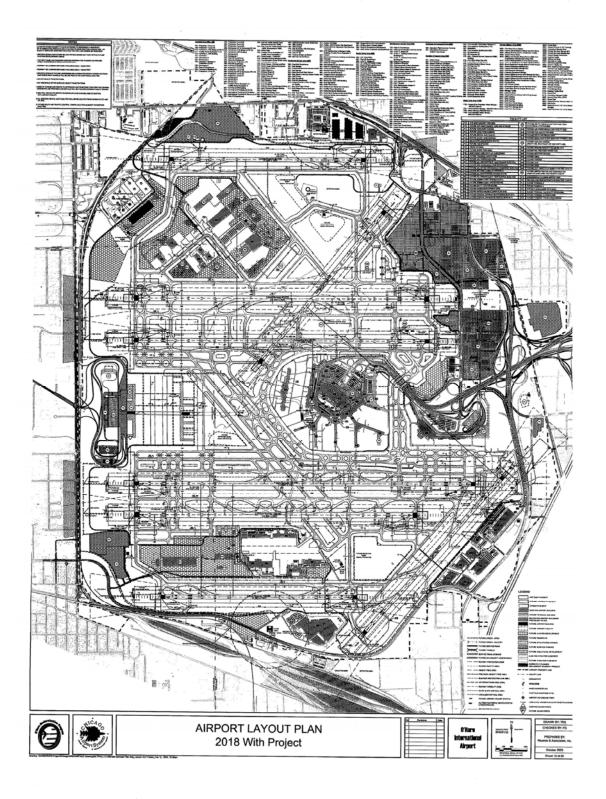
146.3 156.8 153.1

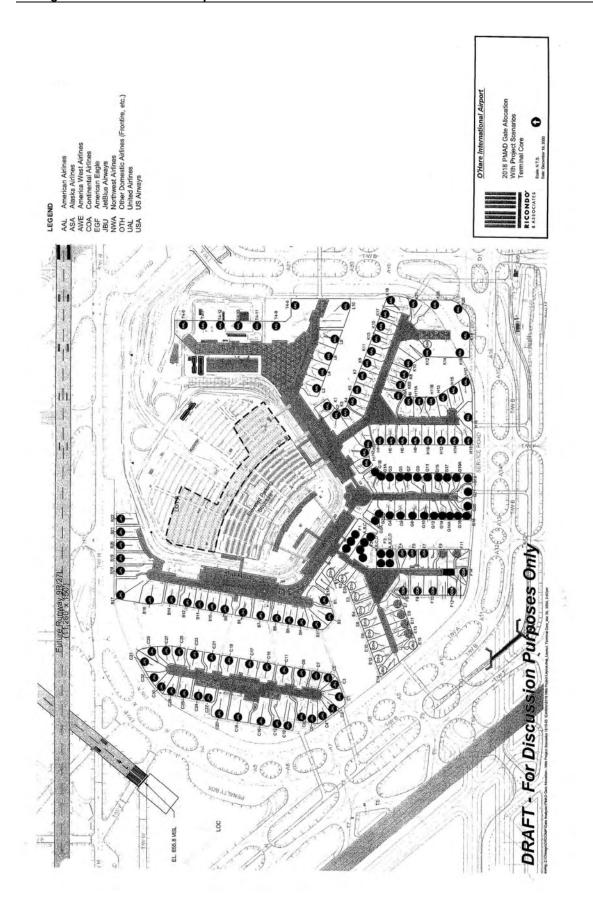
148.0

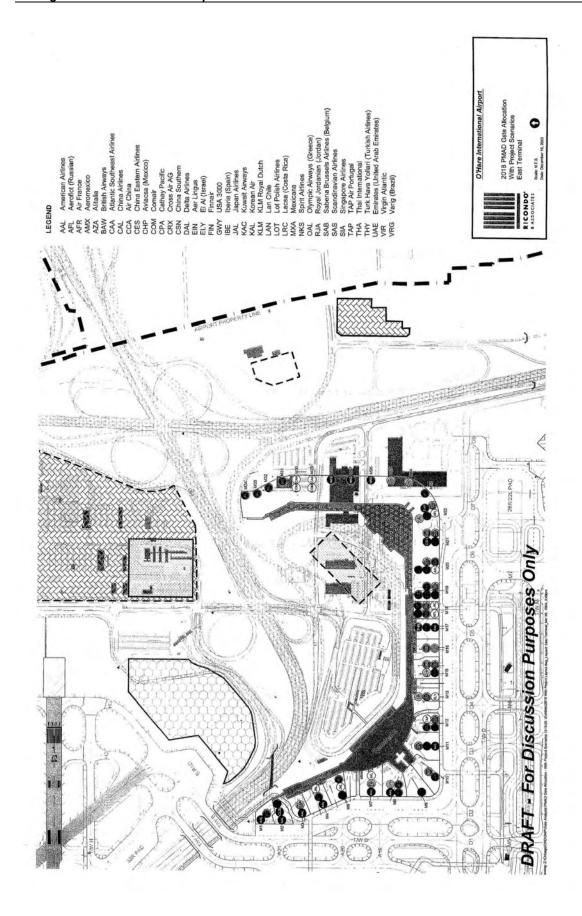
O'Hare International Airport

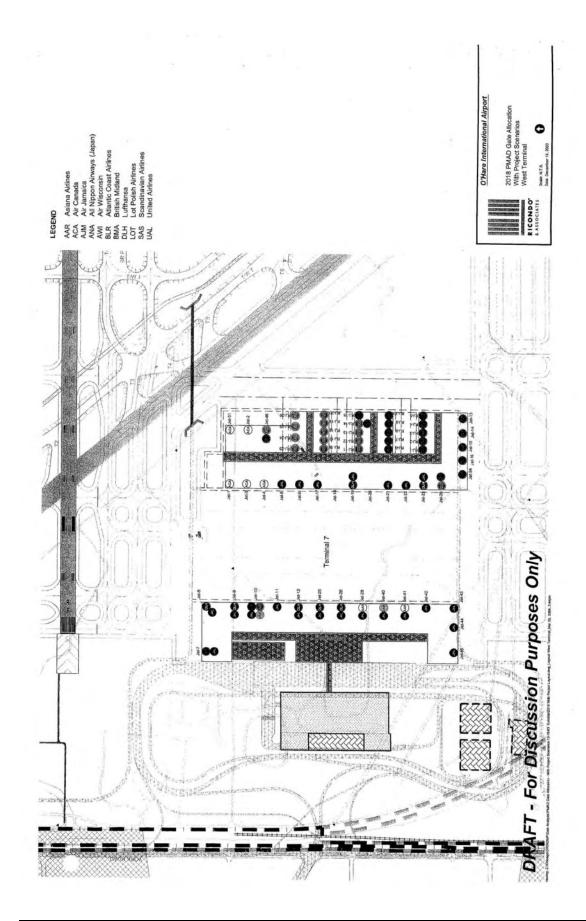
1.6 Airport Layout Plan and Gating Exhibits

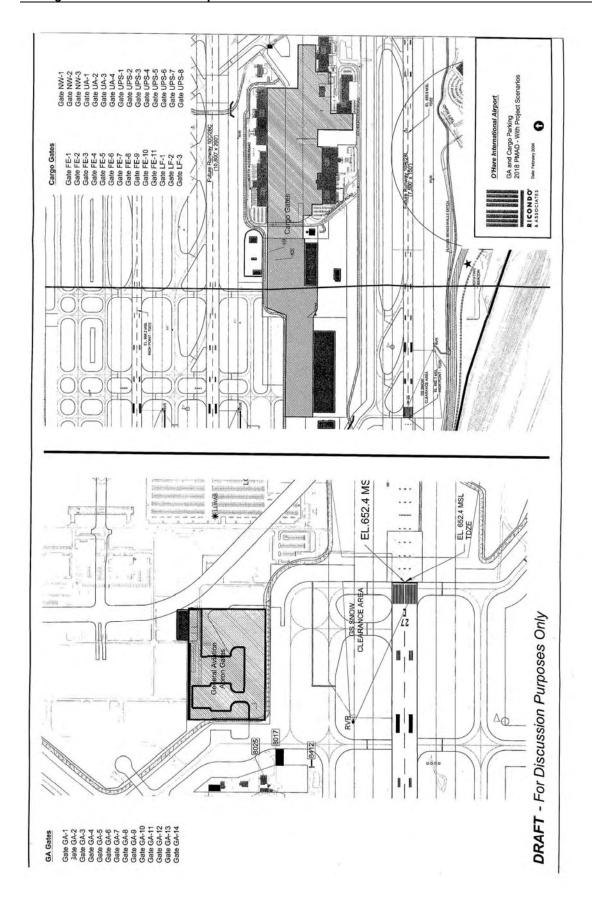
The following pages contain exhibits including the 2018 With Project Airport Layout Plan (ALP). The 2018 PMAD unconstrained gate allocation process resulted in the 2018 PMAD With Project Gate Allocation exhibits, the 2018 PMAD With Project GA and Cargo Parking exhibit, and the 2018 Unconstrained Ramp Charts.



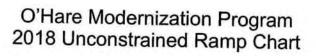


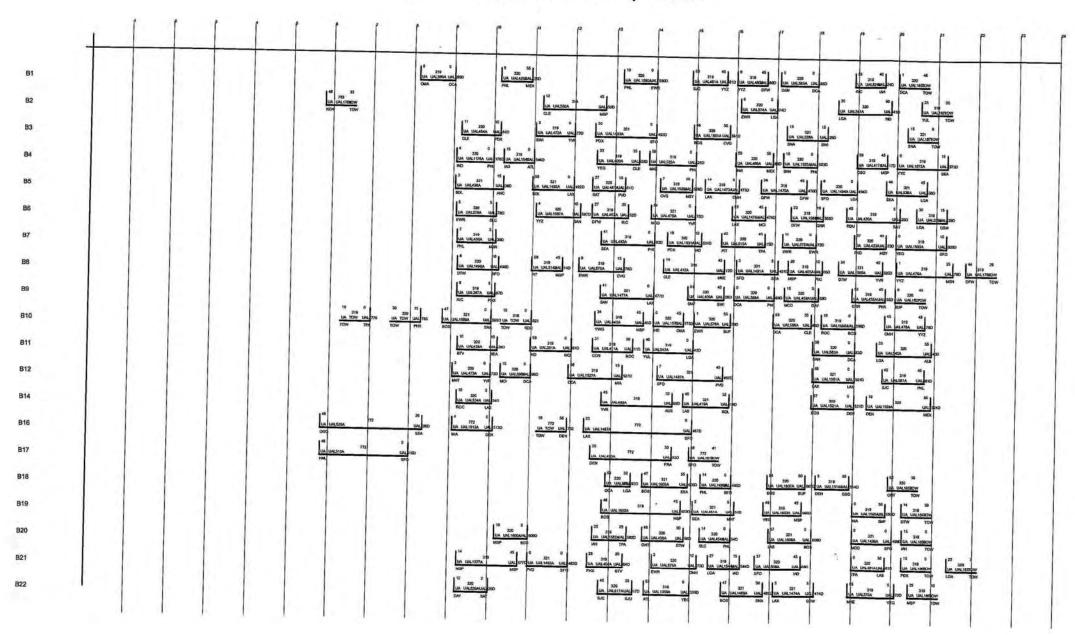






Note: Gating Ramp Charts are included for presentation purposes only. Actual charts are plan sheet size.



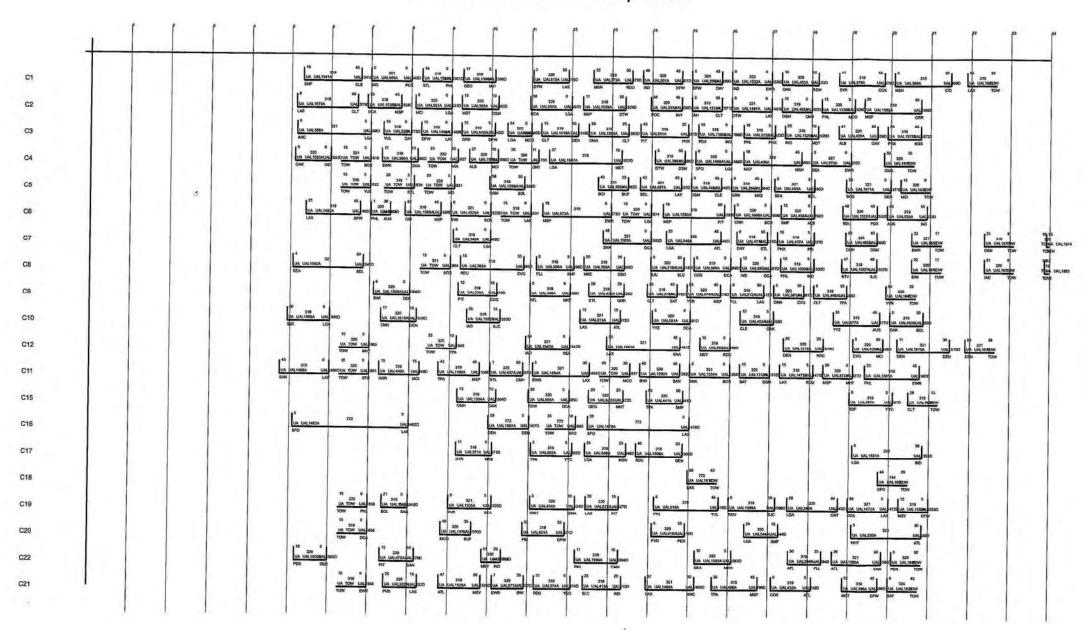


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Page 1

Note: Gating Ramp Charts are included for presentation purposes only. Actual charts are plan sheet size.

O'Hare Modernization Program 2018 Unconstrained Ramp Chart

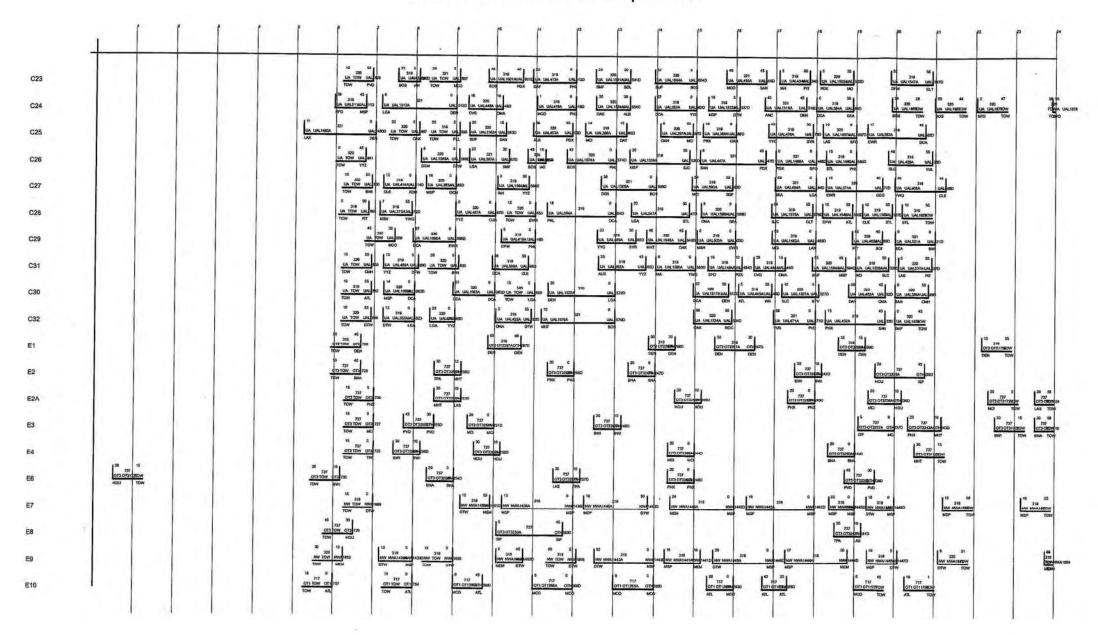


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Page 2

Note: Gating Ramp Charts are included for presentation purposes only. Actual charts are plan sheet size.

O'Hare Modernization Program 2018 Unconstrained Ramp Chart



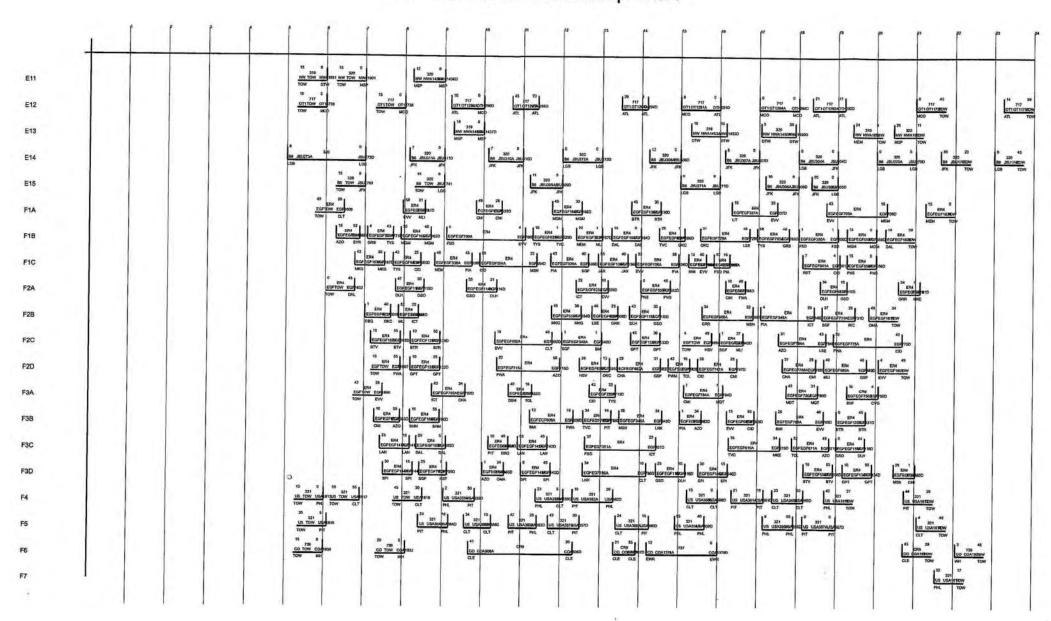
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Page 3

Appendix D July 2005

Note: Gating Ramp Charts are included for presentation purposes only. Actual charts are plan sheet size.

O'Hare Modernization Program 2018 Unconstrained Ramp Chart

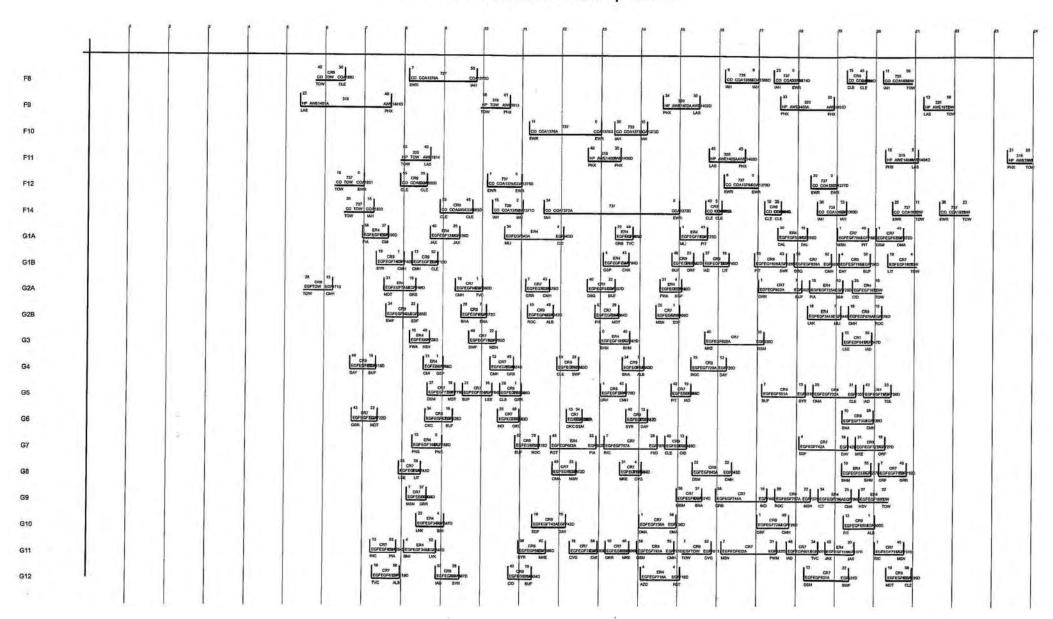


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Page 4

Note: Gating Ramp Charts are included for presentation purposes only. Actual charts are plan sheet size.

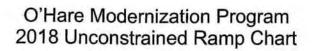
O'Hare Modernization Program 2018 Unconstrained Ramp Chart

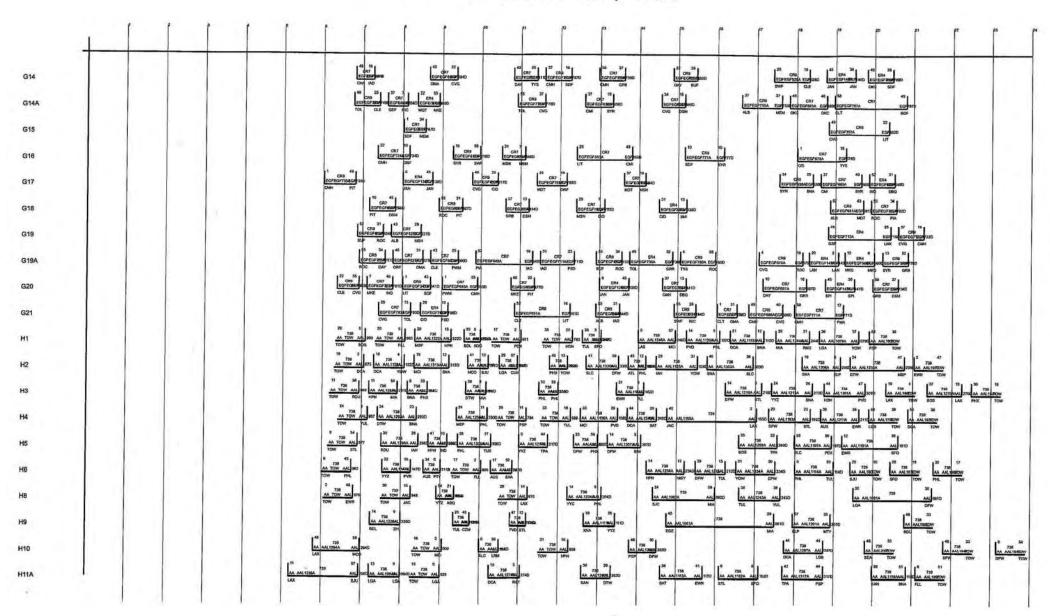


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Page 5

Note: Gating Ramp Charts are included for presentation purposes only. Actual charts are plan sheet size.



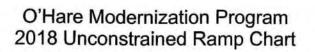


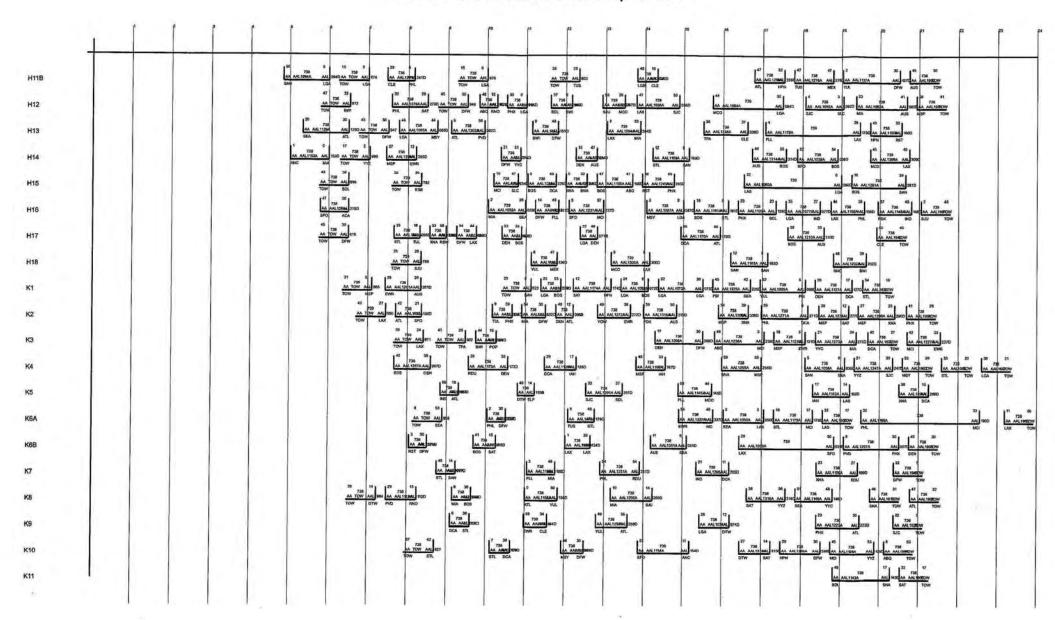
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Page 6

Appendix D D-61 July 2005

Note: Gating Ramp Charts are included for presentation purposes only. Actual charts are plan sheet size.



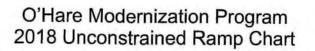


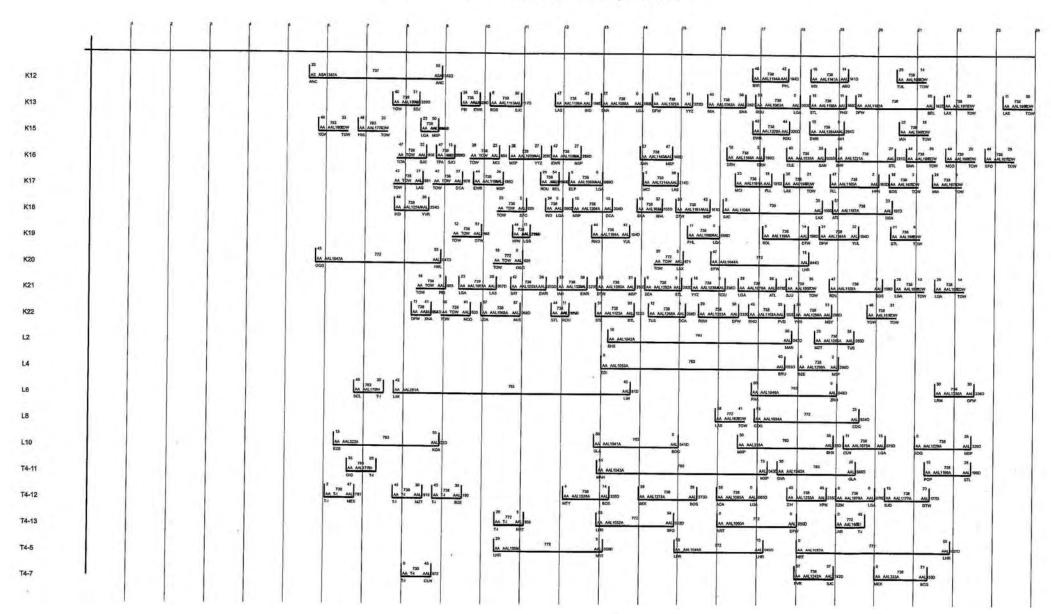
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Page 7

Appendix D

Note: Gating Ramp Charts are included for presentation purposes only. Actual charts are plan sheet size.

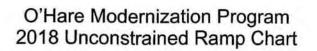


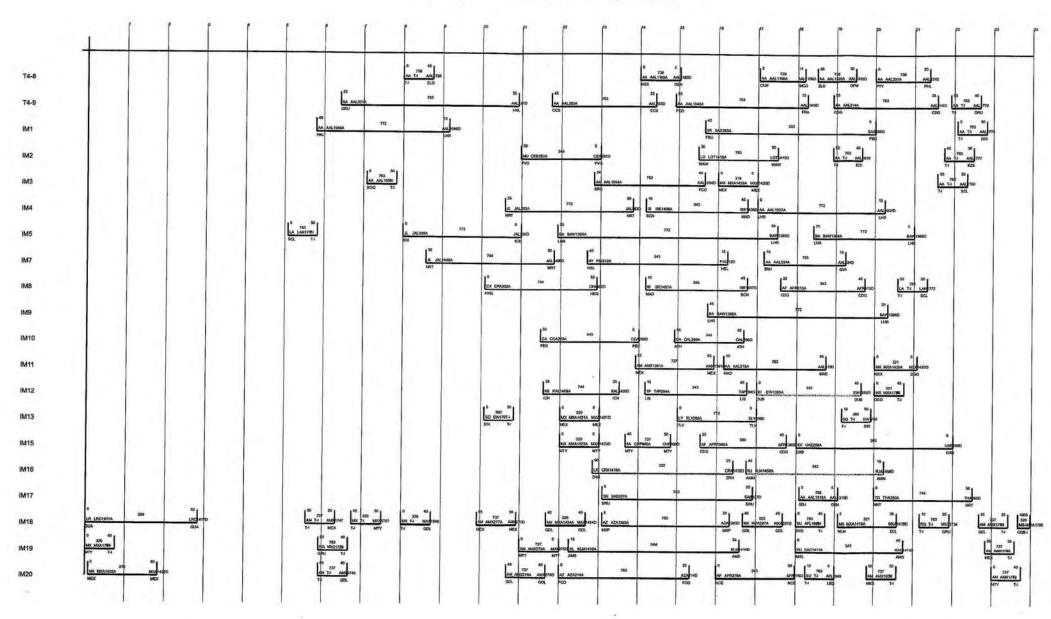


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Page 8

Note: Gating Ramp Charts are included for presentation purposes only. Actual charts are plan sheet size.

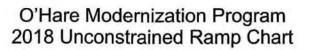


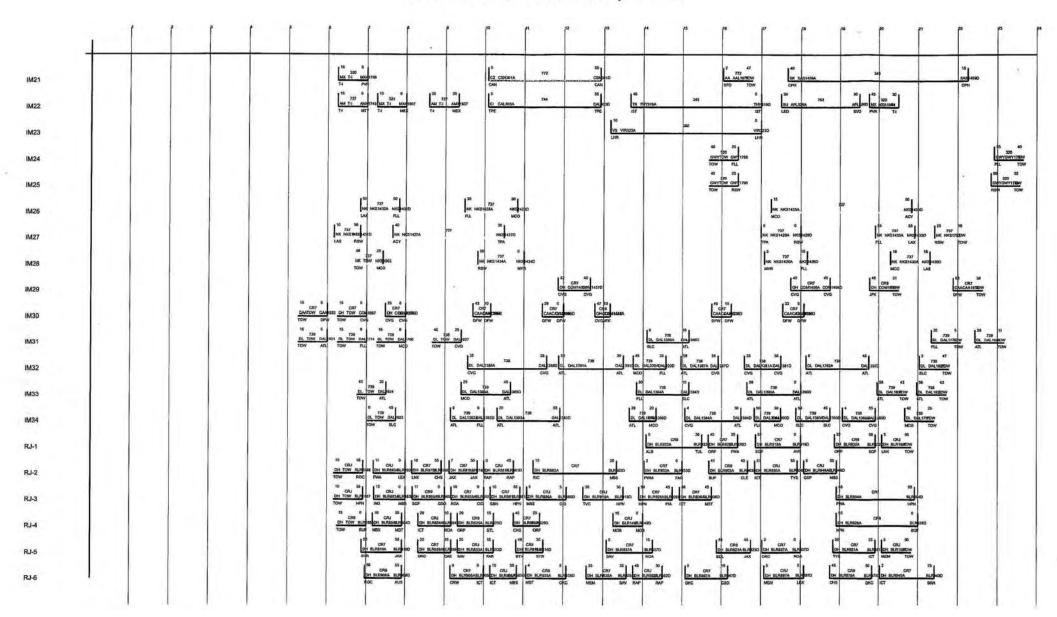


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Page 9

Note: Gating Ramp Charts are included for presentation purposes only. Actual charts are plan sheet size.

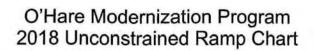


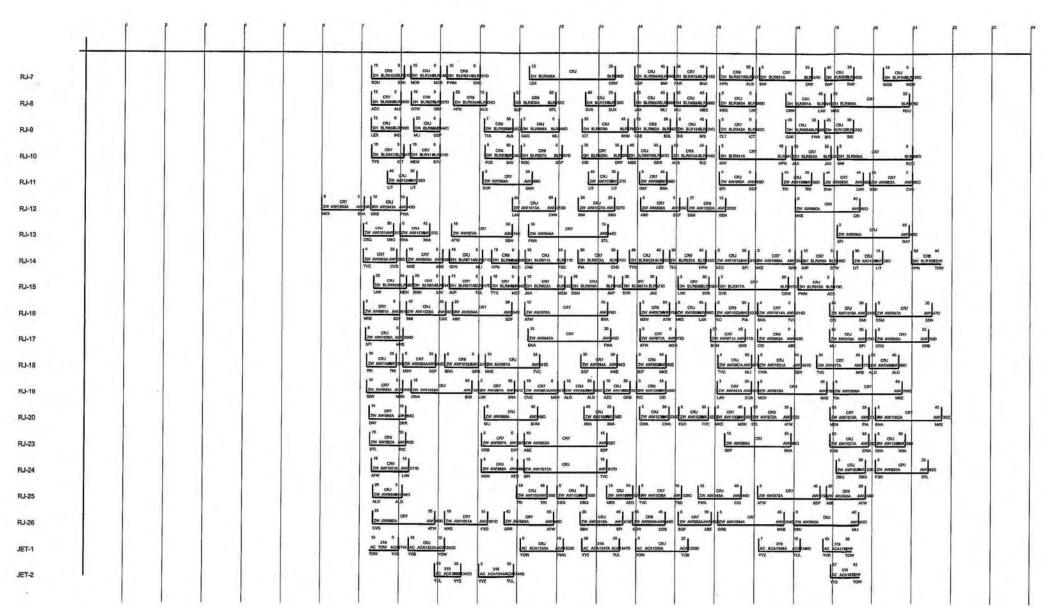


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Page 10

Note: Gating Ramp Charts are included for presentation purposes only. Actual charts are plan sheet size.



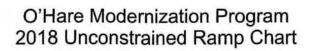


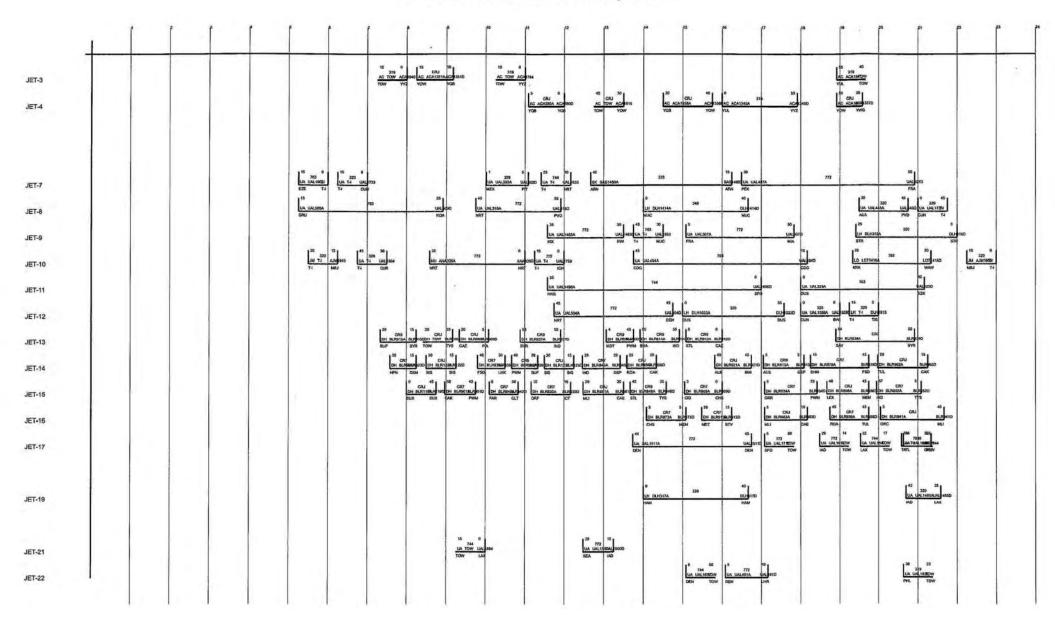
Draft For Discussion Purposes Only

Page 11

Appendix D D-66 July 2005

Note: Gating Ramp Charts are included for presentation purposes only. Actual charts are plan sheet size.

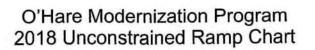


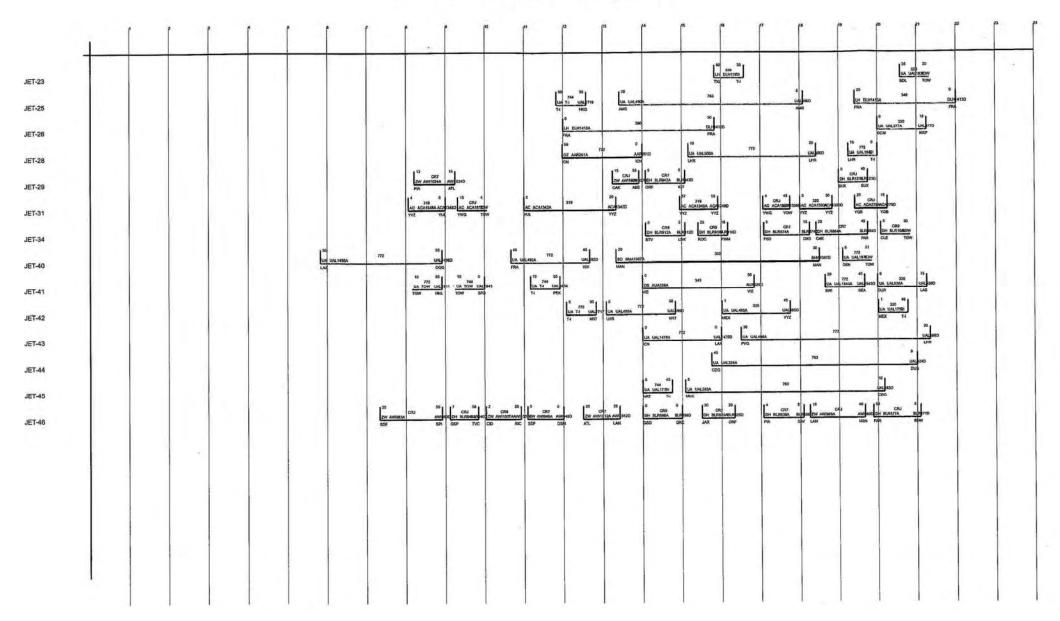


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Note: Gating Ramp Charts are included for presentation purposes only. Actual charts are plan sheet size.





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1.7 Runway End Definition Data

The following pages contain tables and associated exhibits identifying runway end points for the runways used in each 2018 With Project simulation.

OMP Simulation Data Package 2018 With Project

April 2004 DRAFT

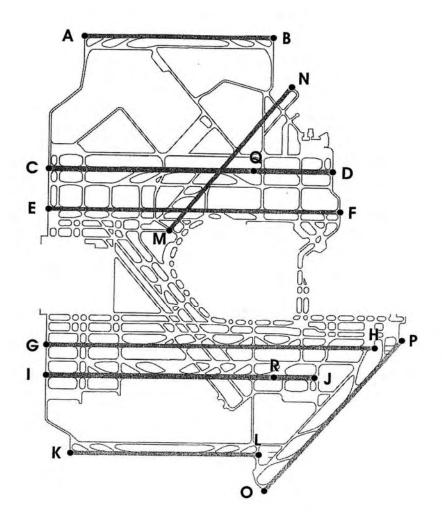
2018 With Project - Experiment 33 (VFR-1 Parallel 9s)
Runway End Definition Data

The following table identifies the runway end points for the runways used in this TAAM experiment, including the latitude, longitude, elevation, and runway width. The associated graphic depicts the runway end points as defined in this table.

Min. Sec. 0 9.8 0 10.1
S S
0. 2
7 :
7.
17.8
1.6
2.2
7.9
9.0
20
0
3
20.7
5
21.1
12.0
11.9
17.8
26.8

Runway end point coordinates were measured directly from the TAAM layouts used in the simulation.
 Full length runway end point elevations were taken from airport layout plan (ALP) data sheets. Short runway end point elevations were interpolated based on runway lengths measured from the TAAM layout files and elevations from the ALP.

O'Hare International Airport



Sources: O'Hare Air Traffic Workgroup Prepared by: Ricondo & Associates, Inc.



Runway Endpoints 2018 With Project Airfield - VFR-1 Parallel 9s

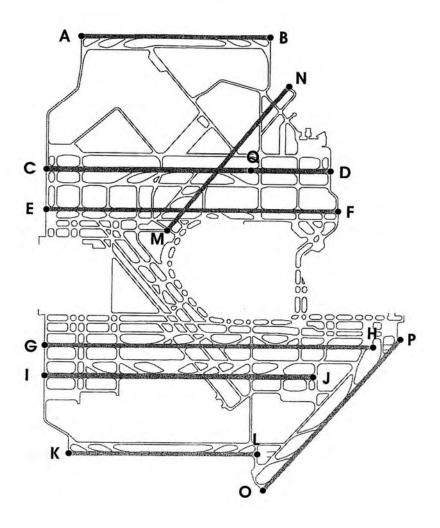
2018 With Project - Experiment 51 (VFR-2 Parallel 9s) Runway End Definition Data

The following table identifies the runway end points for the runways used in this TAAM experiment, including the latitude, longitude, elevation, and runway width. The associated graphic depicts the runway end points as defined in this table.

Runw Point ID(s)	IAAM					End Points	oints					Elevation ²	Dimin
Point D/	Runway			Lati	Latitude				Long	Longitude		(feet above	William
-	s) Description	N/S	Deg.	Min.	Sec.	Decimal	E/W	Deg.	Min.	Sec.	Decimal	MSI.)	(fe,
A 09L		Z	42	0	8.6	42.0027222	M	87	55	38.5	113575078-	0 099	-
B 27R	~	Z	42	0	10.1	42.0028056	W	87	23	50.0	-87 800722	0.200	
C 8,5		Z	41	59	17.5	41.9881944	M	87	55	55.0	-87 9321944	668 3	- (
D 26		Z	41	59	17.8	41.9882778	W	87	53	26.3	-87 8906389	652.4	4 6
E 09R	~	Z	41	59	1.6	41.9837778	W	87	55	55.8	-87 9321667	4.700	7 -
F 27L		Z	41	59	2.2	41.9839444	W	87	53	223	-87 8805778	2.900	
G 10I		Z	41	28	7.9	41.9688611	W	87	55	55.3	-87.9320278	665.8	-
H 28R		Z	41	28	0.6	41.9691667	M	87	52	57.5	-87.8826389	6513	4 +
I 10, 13	13	Z	41	57	56.2	41.9656111	W	87	55	55.1	-87.9319722	6.120	1 6
J 28,	31	Z	41	57	57.0	41.9658333	W	87	53	31.8	7911008 18	6.000	7 6
K 10R		Z	41	57	25.7	41.9571389	A	87	35	41.8	0700000	0.000	7
L 28L		Z	41	57	26.2	41.9572778	A	87	24	23	87 9006380	00077	4 ;
M 04L		Z	41	58	53.6	41.9815556	A	87	24	50.7	97.0145556	0.00.0	4 ;
N 22R	5.4	Z	41	59	51.1	41.9975278	A	22	23	40.2	0000000000	872.8	4 ;
O 04R		Z	41	57	12.0	41.9533333	M	87	2 2	2005	0000160.10-	047.7	4 :
P 22L		Z	41	58	11.9	41.9699722	B	87	3 6	70.6	67.099118	2.100	1
0 27	LAHSO point	Z	41	59	17.8	41.9882778	M	8	24	20.0	87 0022500	656.8	2 2

Runway end point coordinates were measured directly from the TAAM layouts used in the simulation.
 Full length runway end point elevations were taken from airport layout plan (ALP) data sheets. Short runway end point elevations were interpolated based on runway lengths measured from the TAAM layout files and elevations from the ALP.

O'Hare International Airport



Sources: O'Hare Air Traffic Workgroup Prepared by: Ricondo & Associates, Inc.



Runway Endpoints 2018 With Project Airfield - VFR-2 Parallel 9s

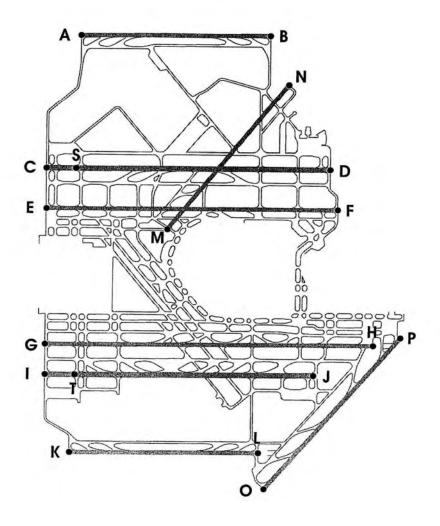
2018 With Project - Experiment 52 (VFR-1 Parallel 27s)
Runway End Definition Data

The following table identifies the runway end points for the runways used in this TAAM experiment, including the latitude, longitude, elevation, and runway width. The associated graphic depicts the runway end points as defined in this table.

AAM						End Points	oints 1					Elevation ²
Runway				Lati	Latitude				Longitude	itude		(feet ahove
(s)	Description	N/S	Deg.	Min.	Sec.	Decimal	E/W	Deg.	Min.	Sec.	Decimal	MSL
j,		Z.	42	0	8.6	42.0027222	M	87	55	38.5	-87.9273611	0 699
R		Z	42	0	10.1	42.0028056	A	87	23	200	CCCC009 78	2000
		Z	41	59	17.5	41.9881944	M	87	20	25.0	777166010	000.3
, 27		Z	41	59	17.8	41 9882778	. 3	0 0	2	200	-67.9321944	608.3
R		2	41	20		01/200711	: ;	10	23	50.3	-87.8900389	652.4
_		: :	1	2	0.1	41.98311/8	*	87	25	55.8	-87.9321667	668.2
1 .		Z	41	29	2.2	41.9839444	M	87	53	22.3	-87.8895278	6503
ه د		Z.	4	28	7.9	41.9688611	M	87	55	55.3	-87.9320278	665.8
¥		Z	41	58	0.6	41.9691667	W	87	52	57.5	-87.8826389	6513
		Z	41	57	56.2	41.9656111	W	87	55	55.1	-87.9319722	8 599
53		Z	41	57	57.0	41.9658333	M	87	53	31.8	27 500 16	0.000
R, 13R		Z	41	57	757	41 0571280	M	5 6	2 1	0.10	1001760-10-	020.0
311			: :		1.0	41.7371369	×	0	22	8.14	-87.9282778	662.7
		Z	41	2)	20.5	41.9572778	A	87	54	2.3	-87.9006389	658.0
1		Z	41	28	53.6	41.9815556	W	87	54	52.4	-87.9145556	8 559
~		Z	41	59	51.1	41.9975278	M	87	53	49.2	-87 8970000	6477
~		Z	41	57	12.0	41.9533333	M	87	23	202	00000000000	1:15
. ,		Z	41	28	110	41 0600722		5 6	3 1	27.60	8///668//9-	001.2
	TAUSO CALL	: :	;	00	11.3	77/6606:14	×	87	25	48.6	-87.8801667	654.4
	LAISO point	Z	41	29	17.5	41.9881944	M	87	55	38.9	-87.9274722	5999
	LAHSO point	Z	41	57	56.3	41.9656389	M	87	88	30 6	CCCCCC 79	666.1

Runway end point coordinates were measured directly from the TAAM layouts used in the simulation.
 Full length runway end point elevations were taken from airport layout plan (ALP) data sheets. Short runway end point elevations were interpolated based on runway lengths measured from the TAAM layout files and elevations from the ALP.

O'Hare International Airport



Sources: O'Hare Air Traffic Workgroup Prepared by: Ricondo & Associates, Inc.



Runway Endpoints 2018 With Project Airfield - VFR-1 Parallel 27s

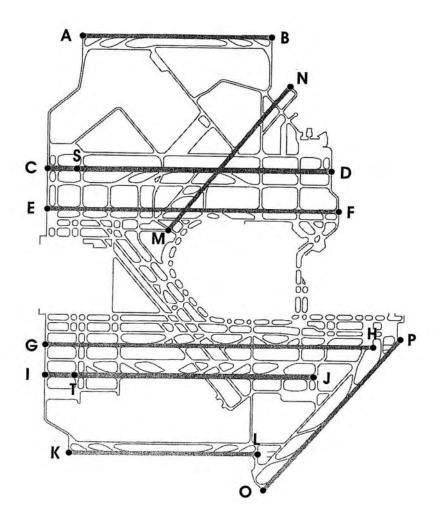
2018 With Project - Experiment 53 (VFR-2 Parallel 27s)
Runway End Definition Data

The following table identifies the runway end points for the runways used in this TAAM experiment, including the latitude, longitude, elevation, and runway width. The associated graphic depicts the runway end points as defined in this table.

					End Points	oints.					Flavotion2
Runway			Lati	Latitude				Long	inda		TICVALIOII
Point ID(s) Description	NIG	2						170	congrade		(feet above
1200	CINI	neg.	Min.	Sec.	Decimal	EW	Deg.	Min.	Sec.	Decimal	WSL)
	Z	45	0	8.6	42.0027222	W	87	55	38.5	-87 9273611	6620
	Z	42	0	10.1	42.0028056	M	87	23	200	07 000 000	0.200
∞∞	Z	41	59	17.5	41.9881944	A	87	2 2	55.0	777166010-	000.5
1.	Z	41	59	17.8	41.9882778	A	87	2 2	0.00	-07.9321944	008.3
	Z	41	65	1 4	41 0837770		6	2 :	50,0	-67.8900389	652.4
	N			2	0111007.11	*	8	cc	22.8	-87.9321667	668.2
	2 2	+	60	7.7	41.9839444	M	87	53	22.3	-87.8895278	6503
	Z :	41	28	7.9	41.9688611	W	87	55	55.3	-87.9320278	8 299
	Z	41	28	0.6	41.9691667	M	87	52	57.5	-87.8826389	6513
31	Z. ;	41	57	56.2	41.9656111	W	87	55	55.1	-87.9319722	8 599
,,,,,	Z,	41	27	57.0	41.9658333	W	87	53	31.8	-87.8921667	6500
	Z	41	27	25.7	41.9571389	W	87	55	41.8	877787978-	6,000
	Z	41	57	26.2	41.9572778	M	87	54	23	-87 9006289	002.7
	Z	41	58	53.6	41.9815556	M	67	2	2 63	60000000000	0.800
	Z	41	59	51.1	41 0075278	in.	0 0	1	4.70	-07.9145350	655.8
	Z	41	57	120	41 052222		10	23	7.64	-87.8970000	647.7
	7	: :	5 6	0.71	41.9333333	*	87	23	59.2	-87.8997778	661.2
2011	Z	14	28	11.9	41.9699722	W	87	52	48.6	-87.8801667	654.4
LAHSO	Z	41	29	17.5	41.9881944	W	87	55	38.9	-87 9274722	1.1.00
LAHSO point	z	41	57	56.3	41.9656389	W	00	25		77 117 10	0000

Runway end point coordinates were measured directly from the TAAM layouts used in the simulation.
 Full length runway end point elevations were taken from airport layout plan (ALP) data sheets. Short runway end point elevations were interpolated based on runway lengths measured from the TAAM layout files and elevations from the ALP.

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Sources: O'Hare Air Traffic Workgroup Prepared by: Ricondo & Associates, Inc.



Runway Endpoints 2018 With Project Airfield - VFR-2 Parallel 27s

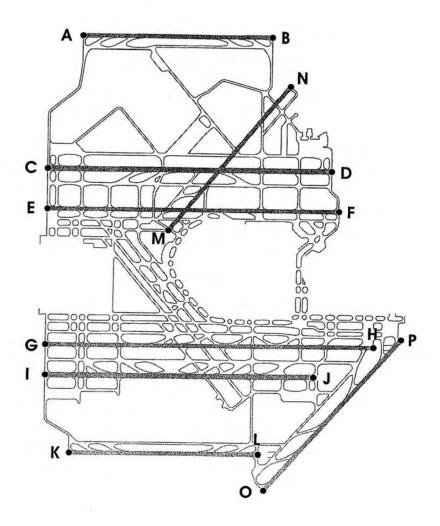
2018 With Project - Experiment 54 (IFR Parallel 9s)
Runway End Definition Data

The following table identifies the runway end points for the runways used in this TAAM experiment, including the latitude, longitude, elevation, and runway width. The associated graphic depicts the runway end points as defined in this table.

MACT						End Points	oints 1					Elevation ²	
Kunway				Lat	Latitude				Long	ongitude		(feet shore	
ID(s)	Description	N/S	Deg.	Min.	Sec.	Decimal	E/W	Deg.	Min.	Sec.	Decimal	MSL	
760		Z	42	0	8.6	42.0027222	M	87	55	38 5	-87 0773611	0033	
27R		Z	42	0	10.1	42 0028056	W	0	3 5	2 0	1100126.10-	0.700	
6		Z	41	20	175	41,0001044		0	23	0.60	-81.8991222	900.5	
27		2		5	2 .	+1.00011+	*	8	22	55.9	-87.9321944	68.3	
non		4	4	39	17.8	41.9882778	M	87	53	26.3	-87.8906389	652.4	
UNK Dan		Z	41	29	1.6	41.9837778	W	87	55	55.8	-87 9321667	6 899	
7/7		Z	41	29	2.2	41.9839444	M	87	53	223	97 8805779	7.000	
10L		Z	41	58	7.9	41.9688611	M	87	25	55.3	07.002020	020.3	
28R		Z	41	28	0.6	41 9691667	M	000	3 6	200	01.9320210	000.8	
0.13		2	17			10010011		0	70	0/10	-87.8826389	651.3	
28 31		4 2	7 :	10	7.00	41.9656111	M	87	55	55.1	-87.9319722	8299	
10,00		Z.	41	27	57.0	41.9658333	M	87	53	31.8	-87.8921667	650 0	
IOK		Z	41	57	25.7	41.9571389	M	87	55	41.8	877787978-	6.653	
78T		Z	41	57	26.2	41.9572778	M	87	24	23	07 0006200	002.7	
)4L		Z	41	58	53.6	41 9815556	W	0			600000000000000000000000000000000000000	0.800	
32R		7	**			000000000000000000000000000000000000000		10	4	57.7	-87.9145556	655.8	
		4	41	99	21.1	41.9975278	A	87	53	49.2	-87.8970000	647.7	
Y+K		Z	41	57	12.0	41.9533333	W	87	53	59.2	877799878-	6199	
22L		Z,	41	28	11.9	41.9699722	W	87	53	48.6	67 0001667	7.100	

Runway end point coordinates were measured directly from the TAAM layouts used in the simulation.
 Full length runway end point elevations were taken from airport layout plan (ALP) data sheets. Short runway end point elevations were interpolated based on runway lengths measured from the TAAM layout files and elevations from the ALP.

O'Hare International Airport



Sources: O'Hare Air Traffic Workgroup Prepared by: Ricondo & Associates, Inc.



Runway Endpoints 2018 With Project Airfield - IFR Parallel 9s

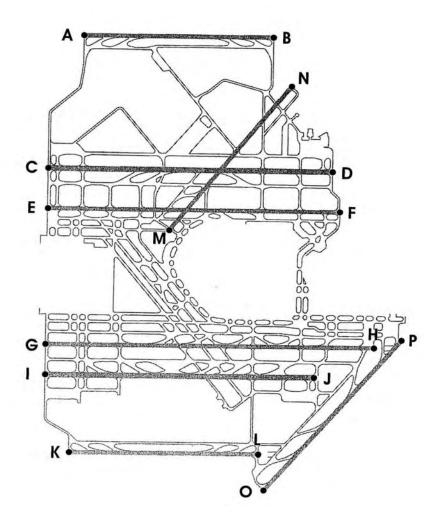
2018 With Project - Experiment 55 (IFR Parallel 27s) Runway End Definition Data

The following table identifies the runway end points for the runways used in this TAAM experiment, including the latitude, longitude, elevation, and runway width. The associated graphic depicts the runway end points as defined in this table.

		TAAM						End Points	oints 1					Elevation ²	Pumas
D(s) Description N/S Deg. Min. Sec. Decimal FRANCE Min. Sec. Decimal Min. Sec. Geo. 3 Sec. Geo. 3 Sec. Geo. 3 Geo. 3 </th <th></th> <th>Runway</th> <th></th> <th></th> <th></th> <th>Lati</th> <th>tude</th> <th></th> <th></th> <th></th> <th>Long</th> <th>itude</th> <th></th> <th>(feet above</th> <th>1 1</th>		Runway				Lati	tude				Long	itude		(feet above	1 1
N 42 0 9.8 42.0027222 W 87 55 38.5 -87.9273611 662.0 N 41 59 17.5 41.9881944 W 87 55 55.9 -87.9321944 668.3 N 41 59 17.5 41.9881944 W 87 55 55.9 -87.9321944 668.3 N 41 59 17.6 41.9837778 W 87 55 55.8 -87.9321044 668.3 N 41 59 2.2 41.9839444 W 87 55 55.8 -87.9321067 668.2 N 41 58 7.9 41.9688611 W 87 55 55.3 -87.9320278 655.8 N 41 58 9.0 41.9691667 W 87 55 55.3 -87.9320278 655.8 N 41 57 56.2 41.9651111 W 87 55 55.1 -87.931972 665.8 N 41 57 56.2 41.9658333 W 87 55 55.1 -87.931972 665.8 N 41 57 56.2 41.9658333 W 87 55 55.1 -87.931972 665.8 N 41 57 56.2 41.9551389 W 87 55 51.1 -87.931972 655.0 N 41 57 56.2 41.9571389 W 87 55 41.8 -87.9282778 662.7 N 41 57 56.2 41.9571389 W 87 55 41.8 -87.9282778 655.0 N 41 57 56.2 41.9572778 W 87 55 41.8 -87.9282778 652.0 N 41 57 56.2 41.9573333 W 87 55 41.8 -87.9145556 655.8 N 41 57 12.0 41.9533333 W 87 53 59.2 -87.8997778 661.2 N 41 57 12.0 41.9533333 W 87 53 59.2 -87.8997778 651.2 N 41 57 12.0 41.9533333 W 87 53 59.2 -87.8997778 651.2	oint	ID(s)	Description	N/S	Deg.	Min.	Sec.	Decimal	E/W	Deg.	Min.	Sec.	Decimal	MSL	
N 42 0 10.1 42,0028056 W 87 53 59.0 87,83997222 660.5 N 41 59 17.5 41,9881944 W 87 55 55.9 -87,8919422 660.5 N 41 59 17.8 41,9882778 W 87 55 55.9 -87,931944 668.3 N 41 59 1.6 41,9882778 W 87 55 55.8 -87,931667 668.2 N 41 59 1.6 41,9883778 W 87 55 52.8 -87,931667 665.8 N 41 58 7.9 41,9688611 W 87 55 55.3 -87,932078 665.8 N 41 58 7.9 41,9688611 W 87 55 57.5 -87,932078 665.8 N 41 57 56.2 41,9656111 W 87 55 57.5 -87,932078		760		Z	42	0	8.6	42.0027222	M	87	55	38 5	87 0273611	0 633	1
N 41 59 17.5 41.9881944 W 87 55 57.9 -87.9321944 668.3 N 41 59 17.8 41.9882778 W 87 55 57.9 -87.9321944 668.3 N 41 59 1.6 41.9837778 W 87 55 57.8 -87.9321667 668.2 N 41 58 7.9 41.9688611 W 87 55 57.3 -87.9320278 665.8 N 41 58 9.0 41.9691667 W 87 55 57.3 -87.9320278 665.8 N 41 57 56.2 41.9656111 W 87 55 57.3 -87.9320278 665.8 N 41 57 56.2 41.9656111 W 87 55 57.1 -87.931972 665.8 N 41 57 56.2 41.9658333 W 87 55 57.1 -87.931972 665.8 N 41 57 57.0 41.9658333 W 87 55 41.8 -87.922778 662.7 N 41 57 25.7 41.9571389 W 87 55 41.8 -87.9282778 662.7 N 41 57 26.2 41.9571389 W 87 55 41.8 -87.9282778 662.7 N 41 57 26.2 41.9571389 W 87 55 41.8 -87.9282778 662.7 N 41 57 26.2 41.9571389 W 87 55 41.8 -87.9282778 662.7 N 41 57 26.2 41.9571389 W 87 55 41.8 -87.9282778 662.7 N 41 57 26.2 41.9571389 W 87 54 2.3 -87.9006389 655.0 N 41 57 26.2 41.9571389 W 87 54 2.3 -87.9006389 655.0 N 41 57 26.2 41.9572778 W 87 54 2.3 -87.9006389 655.0 N 41 57 26.2 41.9572778 W 87 55 4.85 -87.9145556 655.8 N 41 57 12.0 41.9533333 W 87 53 59.2 -87.8997778 661.2		27R		Z	42	0	10.1	42 0028056	W	0 0	2 5	000	1106/26:78-	0.700	
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N 41 59 1.6 41,9837778 W 87 55 55.8 87,9905389 652.4 N 41 59 2.2 41,983944 W 87 55 55.8 87,9321667 668.2 N 41 58 7.9 41,9688611 W 87 55 55.3 87,9320278 650.3 N 41 57 56.2 41,9656111 W 87 55 55.1 87,9319722 665.8 N 41 57 56.2 41,9656111 W 87 55 55.1 87,9319722 665.8 N 41 57 57.0 41,9658333 W 87 55 41.8 87,9282778 662.7 N 41 57 25.7 41,9571389 W 87 55 41.8 87,9282778 662.7 N 41 57 25.7 41,9572778 W 87 54 2.3 87,9006389 658.0 N 41 57 26.2 41,9572778 W 87 54 2.3 87,9006389 658.0 N 41 57 12.0 41,95733333 W 87 53 49.2 87,991000 647.7 N 41 57 12.0 41,9533333 W 87 55 48.6 87,897778 661.2	_	27		Z	41	20	17.8	41 0000770	4 2	0 0	2 2	92.6	-87.9321944	668.3	
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N 41 58 9.0 41,9691667 W 87 52 57.5 -87,8826539 651.3 N 41 57 56.2 41,9656111 W 87 55 55.1 -87,931972 665.8 N 41 57 25.7 41,9571389 W 87 55 41.8 -87,9282778 662.7 N 41 57 26.2 41,9571389 W 87 54 2.3 -87,9006389 658.0 N 41 57 26.2 41,9572778 W 87 54 2.3 -87,9006389 658.0 N 41 58 53.6 41,9815556 W 87 54 52.4 -87,9145556 655.8 N 41 57 12.0 41,9533333 W 87 53 59.2 -87,8997778 661.2 N 41 58 11.9 41,959722 W 87 52 48.6 -87,891667 654.4		101		Z	41	28	7.9	41.9688611	M	87	55	55.3	-87.9320278	8 599	150
N 41 57 56.2 41.9656111 W 87 55 55.1 -87.931972 665.8 N 41 57 57.0 41.9658333 W 87 55 41.8 -87.921667 650.0 N 41 57 25.7 41.9571389 W 87 55 41.8 -87.9282778 662.7 N 41 57 26.2 41.9572778 W 87 54 2.3 -87.9006389 658.0 N 41 58 53.6 41.9815556 W 87 54 -87.9145556 655.8 N 41 59 51.1 41.9975278 W 87 53 49.2 -87.9145556 655.8 N 41 57 12.0 41.9533333 W 87 55 48.6 -87.897000 647.7 N 41 58 11.9 41.969722 W 87 52 48.6 -87.8891667 654.4		28R		Z	41	28	0.6	41.9691667	W	87	52	575	0059000 18	651.3	
N 41 57 57.0 41.9558333 W 87 53 35.1 -87.931972 665.8 N 41 57 25.7 41.9571389 W 87 55 41.8 -87.9282778 662.7 N 41 57 26.2 41.9572778 W 87 54 2.3 -87.906389 658.0 N 41 58 53.6 41.9815556 W 87 54 -87.9145556 655.8 N 41 59 51.1 41.9975278 W 87 53 49.2 -87.9145556 655.8 N 41 57 12.0 41.9533333 W 87 53 49.2 -87.897000 647.7 N 41 58 11.9 41.9699722 W 87 52 48.6 -87.8891667 654.4		10, 13		2	41	57	643	41 0656111		5 6		21.5	6000700.10-	021.3	
N 41 57 25.7 41.957333 W 87 53 31.8 -87.8921667 650.0 N 41 57 25.7 41.9571389 W 87 55 41.8 -87.9282778 662.7 N 41 57 26.2 41.9572778 W 87 54 2.3 -87.906389 658.0 N 41 58 53.6 41.9815556 W 87 54 -87.9145556 655.8 N 41 59 51.1 41.9975278 W 87 53 49.2 -87.9145556 647.7 N 41 57 12.0 41.9533333 W 87 53 59.2 -87.8997778 661.2 N 41 58 11.9 41.969722 W 87 52 48.6 -87.8801667 654.4		78 31			: :	5	2000	41.9050111	*	8	22	55.1	-87.9319722	8.599	
N 41 57 25.7 41.9571389 W 87 55 41.8 -87.9282778 662.7 N 41 57 26.2 41.9572778 W 87 54 2.3 -87.9006389 658.0 N 41 58 53.6 41.9815556 W 87 54 52.4 -87.9145556 655.8 N 41 59 51.1 41.9975278 W 87 53 49.2 -87.897000 647.7 N 41 57 12.0 41.9533333 W 87 53 59.2 -87.8997778 661.2 N 41 58 11.9 41.969722 W 87 52 48.6 -87.8801667 654.4		10,02		Z	41	27	27.0	41.9658333	M	87	53	31.8	-87.8921667	650.0	7
N 41 57 26.2 41.9572778 W 87 54 2.3 -87.906389 658.0 N 41 58 53.6 41.9815556 W 87 54 -87.9145556 655.8 N 41 59 51.1 41.9975278 W 87 53 49.2 -87.8970000 647.7 N 41 57 12.0 41.9533333 W 87 53 59.2 -87.8997778 661.2 N 41 58 11.9 41.9699722 W 87 52 48.6 -87.8801667 654.4		10K		Z	41	27	25.7	41.9571389	W	87	55	41.8	-87 9787778	7 699	
N 41 58 53.6 41.9815556 W 87 54 52.4 -87.9145556 N 41 59 51.1 41.9975278 W 87 53 49.2 -87.8970000 N 41 57 12.0 41.9533333 W 87 53 59.2 -87.8997778 N 41 58 11.9 41.9699722 W 87 52 48.6 -87.8801667	•	28L		Z	41	57	26.2	41.9572778	M	87		23	-87 9006389	658.0	
N 41 59 51.1 41.9975278 W 87 53 49.2 -87.8970000 N 41 57 12.0 41.9533333 W 87 53 59.2 -87.8997778 N 41 58 11.9 41.9699722 W 87 52 48.6 -87.8801667)	J4L		Z	41	58	53.6	41.9815556	M	87		20 05	07 0146667	0.000	001
41.9533333 W 87 53 59.2 -87.8997778 41.9699722 W 87 52 48.6 -87.8801667	.4	22R		Z	41	50	1 15	41 0075279	A	5 6	5 6	1.70	0000010000	8720	
41.9533333 W 87 53 59.2 -87.8997778 41.9699722 W 87 52 48.6 -87.8801667	-	148		7				017010011	*	10	23	7.64	-87.8970000	647.7	150
41.9699722 W 87 52 48.6 -87.8801667				4	4	10	17.0	41.9533333	A	87	23	59.2	-87.8997778	661.2	150
	•	777		Z	41	28	11.9	41.9699722	W	87	52	48.6	-87.8801667	654.4	

Runway end point coordinates were measured directly from the TAAM layouts used in the simulation.
 Full length runway end point elevations were taken from airport layout plan (ALP) data sheets. Short runway end point elevations were interpolated based on runway lengths measured from the TAAM layout files and elevations from the ALP.

O'Hare International Airport



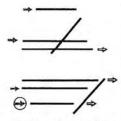
Sources: O'Hare Air Traffic Workgroup Prepared by: Ricondo & Associates, Inc.



Runway Endpoints 2018 With Project Airfield - IFR Parallel 27s

O'Hare International Airport

II. O'Hare International Airport 2018 With Project Operating Configurations



2.1 VFR-1 Parallel 9s

VFR-1 east flow as shown in **Exhibit II-1** would consist of arrivals on Runways 9L, 9C, 10C and, during periods of peak demand, Runway 10R. Runways 9R, 10L and 10R would be used for departures. New Large Aircraft (NLA) would use either Runways 9C or 10C for arrivals and departures. It is assumed that visual approach procedures would be applied to accommodate the use of the fourth arrival runway. **Exhibit II-2** depicts the primary arrival and departure flight paths that would be associated with

this operating configuration.

2.1.1 Arrivals

Aircraft entering the TRACON airspace from the northeast (PAYTN) and in the tower en route structure from Milwaukee (MKE) and South Bend (SBN) would normally be assigned to Runway 9L. During periods of peak arrival demand, this northeast traffic could be off-loaded to either Runways 9C or 10R. Arrivals from the southeast (BEARZ) would normally be assigned to Runway 10C and could be off-loaded to either Runways 10R or 9L. Aircraft arriving from the northwest (TEDDY/KRENA) would normally be assigned to Runway 9C and could be off-loaded to Runway 9L. Arrivals from the southwest (KELSI) would normally be assigned to Runway 9C. During periods of peak arrival demand, these southwest arrivals could be off-loaded to Runway 10C or 10R from over BENKY/NEWRK.

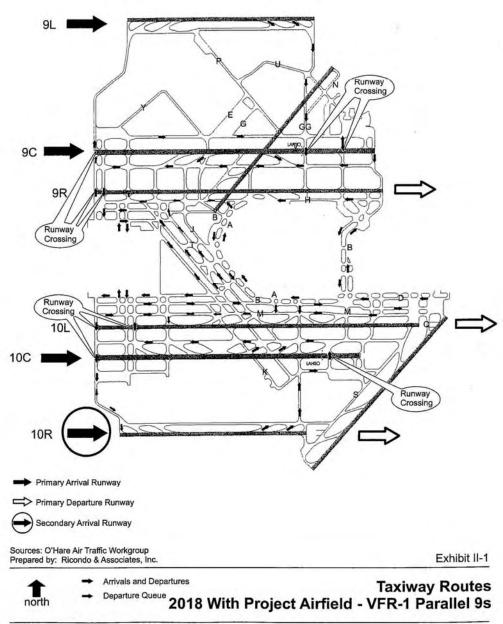
Arriving aircraft would maintain an altitude of 7,000 feet MSL or above until entering the appropriate descent area. Upon entering the descent area, arrivals to the outer Runways 9L or 10R would descend to 4,000 feet and remain at that altitude until within 15.0 NM of the Airport. Arrivals to the inner Runways 9C or 10C would descend to 6,000 or 5,000 feet MSL respectively and remain at these altitudes until within 25.0 NM of the Airport. Arrivals to the center runways from the southwest would follow a high and wide approach path, proceeding directly to SIMMN, crossing a point west of ARR at 12,000 feet MSL. Approaching SIMMN, the high and wide traffic would turn onto the final approach for Runway 9C at 11,000 feet MSL.

2.1.2 Departures

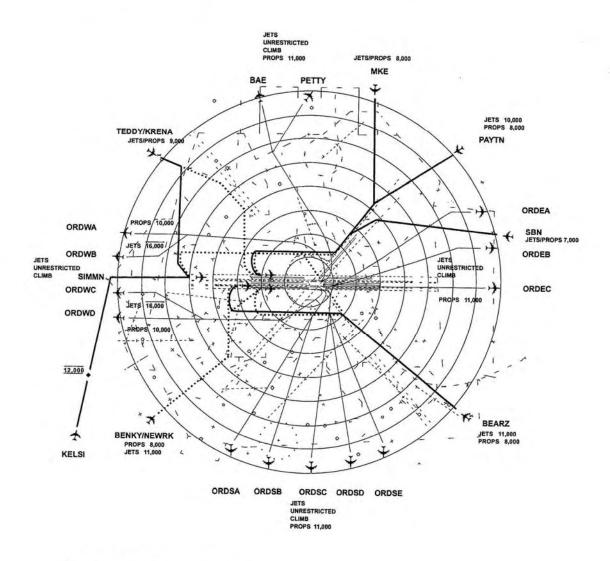
Departure runways would be assigned consistent with the intended route of flight with an eye towards maintaining a balanced airfield operation. In general, departures to the northwest (ORDWA and ORDWB), north (BAE and PETTY), and northeast (ORDEA and ORDEB) would be assigned to Runway 9R. Departures to the east (ORDEC) and southeast (ORDSC, ORDSD and ORDSE) would be assigned to Runway 10L. Departures to the south (ORDSA and ORDSB) and southwest (ORDWC and ORDWD) would be assigned to Runway 10R. International departures to Pacific Rim and South American destinations would be assigned to full length of Runway 10L, while NLA departures would be assigned Runway 9C if routed to the northwest, north or east. If routed to the southeast through southwest, they would be assigned Runway 10C.

Preliminary Draft
For Discussion Purposes Only

O'Hare International Airport



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Note: Range Rings are 5 nautical miles apart.

Sources: O'Hare Air Traffic Workgroup Prepared by: Ricondo & Associates, Inc.

Exhibit II-2

North

Primary Arrival Route
Secondary Arrival Route
Departure Route

Airspace Routes 2018 With Project - VFR-1 Parallel 9s

O'Hare International Airport

The following runway use strategies would be used to balance airfield demand during periods of peak departures over one or more sets of departures fixes. During peak eastbound traffic periods, traffic over all the south fixes could be shifted to Runway 10R. Conversely, during periods of peak westbound demand, traffic over all the east fixes could be shifted to Runway 10L.

Departing aircraft would initially be assigned an altitude of 5,000 feet MSL and a departure course that would avoid conflicting with the arrival descent area. Once clear of the arriving aircraft, departures would be climbed as indicated in Exhibit II-2.

2.1.3 Airfield Circulation

The primary ground movements associated with this configuration are illustrated on Exhibit II-1. The black arrows depict directional flow on the associated taxiway. Red arrows indicate departure queuing areas.

To accommodate the flow of traffic in and out of the terminals, aircraft taxi clockwise on Taxiway A, counterclockwise on Taxiway B and west on Taxiway H. To accommodate the flow of traffic to and from the North and South Airfields, four parallel southeast/northwest diagonal taxiways located between the Main Terminal core and the West Terminal are provided. The two most eastern taxiways are existing Taxiways T and J/B, while the two western taxiways are new.

2.1.3.1 Arrivals

Aircraft landing Runway 10C destined for the Main Terminals exit north from the runway, taxi west on the parallel taxiway before crossing Runway 10L west of the Runway 10L intersection departure point. Aircraft destined for the North Airfield Ramp taxi northwest on the diagonal taxiway just west of Taxiway T and cross Runway 9R at the west end of runway behind the Runway 9R departure point. Aircraft continue their taxi north and cross Runway 9C at the west end of the runway then proceed east on the parallel taxiway to the ramp. Aircraft landing Runway 10R taxi north on Taxiway F, jog east and cross Runway 10C beyond the Runway 10C LAHSO hold point. Aircraft continue to taxi west on the parallel taxiway, cross Runway 10L west of the Runway 10L departure point. Aircraft destined for the North Airfield Ramp, transition to the north airfield by taxiing northeast on either Taxiway T or the taxiway just west of T then continue the taxi route as previously described for landings on Runway 10C. Aircraft landing Runway 9C destined for the Main Terminals exit south and taxi west on the parallel taxiway, cross Runway 9R at the west end of the runway behind the Runway 9R departure point. Aircraft transition to the South Airfield by taxiing southeast on the western most diagonal taxiway. Aircraft landing Runway 9C destined for the North Airfield Ramp exit to the north. Aircraft landing Runway 9L destined for Main Terminals exit south at the east end of the runway, taxi south on Taxiway GG, cross Runway 9C east of the Runway 9C LAHSO hold point. Aircraft continue taxi west on the parallel taxiway then cross Runway 9R west of the Runway 9R departure point. Aircraft transition and head southeast to the South Airfield via the most western diagonal taxiway.

2.1.3.2 Departures

Aircraft departing Runway 10L transition to the runway from the parallel taxiway located on the north side of the runway. Aircraft hold on parallel Taxiway M east of the intersection departure used to facilitate "inactive" runway crossings. Aircraft originating from the North Airfield cross Runway 9C east of the Runway 9C LAHSO hold point, taxi west on the parallel taxiway and cross Runway 9R west of the Runway 9R intersection departure. Aircraft continue southeast on the western most

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diagonal taxiway to the South Airfield. Aircraft departing Runway 10R originating from the Main Terminals transition to and cross Runway 10L at the west end of the runway, west of the Runway 10L intersection departure. Aircraft then cross Runway 10C at the approach end in route to Runway 10R. Aircraft originating from the North Airfield cross Runway 9C east of the Runway 9C LAHSO hold point, taxi west on the parallel taxiway and cross Runway 9R west of the Runway 9R intersection departure. Aircraft continue southeast on the western most diagonal taxiway to the South Airfield and continue taxi as previously described.

Aircraft departing Runway 9R originating from the South Airfield transition to and taxi northeast on either Taxiway T, the taxiway just west of Taxiway T, or Taxiway A to queue on Taxiway H east of the intersection departure. Aircraft originating from the North Airfield cross Runway 9C east of the Runway 9C LAHSO hold point, taxi west on the parallel taxiway and queue for a Runway 9R intersection departure on the north side of the runway.

2.1.3.3 Taxi Speeds

In TAAM, taxi speeds for simulation are typically defined as follows; 7 knots on aprons and taxilanes and 15 knots on taxiways.

2.1.4 Primary and Secondary Runway Assignments

2.1.4.1 Arrivals

Table II-1

Arrival Fix —		Preferences	
Maria Caral	1 st	2 nd	3 rd
PAYTN	9L	9C	10R
EDDY/KRENA	9C	9L	1011
BEARZ	10C	10R	9L
KELSI	9C	153.	OL.
NKY/NEWRK		10C	10R
ELSI Offload)		,,,,	IUN

Source: ORD Air Traffic Workgroup Prepared By: Ricondo & Associates, Inc.

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2.1.4.2 Departures

Table II-2

	Departure Fix -		Preferences	
	Departure 11x	151	2 nd	3 rd
North	BAE	9R		
	PETTY	9R		
East	ORDEA	9R	10L	
	ORDEB	9R	10L	
	ORDEC	10L	9R	
South	ORDSA	10R	10L	
	ORDSB	10R	10L	
	ORDSC	10L	10R	
	ORDSD	10L	10R	
	ORDSE	10L	10R	
West	ORDWA	9R	79.1	
	ORDWB	9R		
	ORDWC	10R		
	ORDWD	10R		

Notes:

- Asian Markets Departures: Runway 10L (full length) European Markets Departures: Runway 9R

Source: ORD Air Traffic Workgroup Prepared By: Ricondo & Associates, Inc.

2.1.5 Runway Dependencies

2.1.5.1 Arrival-Arrival

- 1. Arriving aircraft assigned to Runway 10R are generally spaced at an interval of 4.5 to 5.0 NM to accommodate aircraft departing on the same runway.
- 2. Arriving aircraft offloaded from the southwest fix (KELSI) assigned to Runway 10C would be spaced at an interval of 15 NM to accommodate aircraft departing to the west. This spacing was simulated by adjusting the hourly flow rate to Runway 10C from KELSI.

2.1.5.2 Arrival-Departure

1. Runway 10R departures must be airborne before Runway 10R arrivals cross the runway threshold.

2.1.5.3 Departure-Departure

1. NLA departures on Runway 9C and Runway 9R departures are fully dependent.

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2.1.6 LAHSO Assumptions

Table II-3

LAHSO Runway	Assumed LAHSO distance	Reason for LAHSO	Aircrafts Using the Procedure	Conditions under which LAHSO is available
9C	8,200 ft.	Allow for Runway 9L arrivals to independently cross in front of the arrivals.	No B747 or DC86 aircraft, General Aviation or International Arrivals.	VFR, dry with no tail wind
10C	9,100 ft.	Allow for Runway 10R arrivals to independently cross in front of the arrivals.	No B747 or DC86 aircraft, General Aviation or International Arrivals.	VFR, dry with no tail wind

Source: ORD Air Traffic Workgroup Prepared By: Ricondo & Associates, Inc.

As indicated by O'Hare Order 7110.118, Land and Hold Short Operations (LAHSO), the following table outlines the common aircraft groups performing LAHSO operations at O'Hare International Airport.

Table II-4 - ORD LAHSO - Common Air Carrier Aircraft Groups

Group 1-6 (5,000')	Group 7 (6,000')	Group 8-9 (8,000')	Unable LAHSO
7R H/S 22R arrivals	22R H/S 27R arrivals 22R H/S 9L departures 9L H/S 32R departures	9R H/S Taxiway Sierra 14R H/S 9R arrivals	Onable EATIOO
All ATR's	A306		Foreign Carriers
SF34	A310		All Military
ATP	A319, A320		All General Aviation
	Was 5 at 15		All B747's
	B721, B722	B72Q	A321
	All B737 models except:		DC86
	B734, B737, B739		
	B752	B753	
	2322	All B707's	
	B190	All B767's	
	All BA46's	All B777's	
	All CARJ's		
	D328	All DC8's	
	E120	DC10 and MD11	
	E135, E145	All MD80's	
		MD90	
		L101	

Source: ORD Order 7110.118 Prepared By: Ricondo & Associates, Inc.

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2.1.7 Intersection Departure Procedures

Table II-5

Departure Runway	(Take-Off Run Available)	Reason	Aircrafts Using the Procedure	Conditions required for intersection departures
9R	X1 (10,200 ft)	Arrivals on Runways 9L and 9C can independently cross behind the departures.	All except Asian-Pacific Rim Departures	No restrictions
10L	Y1 (10,600 ft)	Arrivals on Runways 10C and 10R can independently cross behind the departures. Also, Runway 10R departures can taxi behind the departures.	All except Asian-Pacific Rim Departures	No restrictions.

Source: ORD Air Traffic Workgroup Prepared By: Ricondo & Associates, Inc.

2.1.8 Noise Abatement Procedures

Noise abatement procedures are established for the Airport. When feasible they are applied between 10:00 p.m. and 7:00 a.m. However, due to traffic demand it is normal for the use of noise preferential runways to end between 6:00 a.m. and 6:30 a.m. Conversely, in the evening noise abatement procedures are not initiated until the operational demand is sufficiently reduced to accommodate the traffic safely on the preferential noise abatement runways. Based on weather conditions, the operating configuration, and demand, noise abatement procedures vary from one night to the next.

The following defines the timeframe simulation rules are established for this experiment as they are related to the use of noise abatement runways and procedures.

2.1.8.1 Arrivals

When weather conditions favor the use of VFR-1 Parallel 9s, the noise abatement runway for arrivals would be Runway 10L. In this simulation, noise abatement rules do not apply between the hours of 6:15 a.m. and 9:40 p.m.

2.1.8.2 Departures

The noise abatement departure runway for VFR-1 Parallel 9s would be Runway 10L. In this configuration, departures on Runway 10L must fly runway heading until vacating 3,000 feet MSL before beginning a turn. Refer to the SID for a graphical depiction.

In this simulation, noise abatement rules do not apply between the hours of 6:00 a.m. and 9:40 p.m.

```
Runway: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_021204.rwg
taam@grolsh Thu Mar 25 16:31:06 2004
  * Group "09RDepJets"
 group 09RDepJets = {
   "ORDWB2",
   "ORDWA2",
   "BAE",
   "PETTY",
   "ORDEB",
   "ORDEA" };
  * Group "10LDepJets"
 group 10LDepJets = {
   "ORDEC",
   "ORDSD",
   "ORDSE" };
 * Group "10RDepJet"
 group 10RDepJet = {
   "ORDWC2",
   "ORDWD2",
   "ORDSA",
   "ORDSB" };
 * Group "EurAsian"
 group EurAsian = {
  "E*",
  "L*",
"B*",
  "P*".
  "V*".
  "R*",
"Z*",
  "A*",
  "MKJS",
  "MMGL",
  "MMMM",
  "MMMX",
  "MMPR",
  "MROC" };
```

```
Runway: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_021204.rwq
                                                                                                   2
taam@grolsh Thu Mar 25 16:31:06 2004
  * Group "WstCst"
 group WstCst = {
   "KLAX",
   "KSFO",
   "KSAN" };
  * Group "BigII"
 \mathbf{group}\;\mathrm{Big}\Pi=\{
   "74*",
"B74*",
   "76*",
   "B76*",
   "30*",
   "A30*",
   "33*",
   "A33*",
   "34*",
   "A34*",
   "38*" };
 * Group "long_haul"
group long_haul = {
 "V*",
"R*",
"Z*",
"S*",
"A*",
  "PHNL",
  "W*",
"O*",
  "U*" };
* Group "747380"
group 747380 = {
 "74*",
 "38*",
 "77*",
"34*",
 "ABF" };
```

```
Runway: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_021204.rwq
taam@grolsh Thu Mar 25 16:31:06 2004
  * Group "NorthEastArrFixes"
 group NorthEastArrFixes = {
   "PAYTN",
   "MKE150018",
   "MATRU",
   "NEPTS",
   "MINCE" };
 * Group "EAEB"
 group EAEB = {
   "ORDEA",
   "ORDEB" };
 * Group "SASB"
 group SASB = {
  "ORDSA",
  "ORDSB" };
 * Group "SCSDSE"
group SCSDSE = {
  "ORDSD",
  "ORDSC",
  "ORDSE" };
 * Group "BigGuys"
group BigGuys = {
  "74*",
  "77*".
  "A33*",
  "34*".
  "A34*",
  "33*",
  "M1F",
  "76*",
  "B76*" };
```

```
Runway: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_021204.rwq
taam@grolsh Thu Mar 25 16:31:06 2004
  * Group "WCWD"
 group WCWD = {
"ORDWC2",
   "ORDWD2" };
 * Group "STAR380"
 group STAR380 = {
  "SIA*",
"DLH*",
  "UAE*" };
 * Group "NONSTAR380"
 group NONSTAR380 = {
  "AFR*",
"VIR*",
  "FDX*" };
 * Group "NON_LAHSO_ACFT"
group NON_LAHSO_ACFT = {
  "B74*",
  "38*",
"A38*",
  "DC86" };
```

```
Runway: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_021204.rwq
taam@grolsh Thu Mar 25 16:31:06 2004
  * Group "INT_AIRLINE"
 group INT_AIRLINE = {
   "AAR*",
   "ACA*",
   "AFL*".
   "AFR*",
   "AJM*",
   "AMX*",
   "ANA*",
   "AUA*",
   "AZA*",
   "BAW*",
   "BMA*",
   "CAL*",
   "CES*",
   "CHP*",
   "CPA*",
   "CRX*",
   "CSN*",
   "DLH*",
  "EIN*",
"ELY*",
  "FIN*",
  "GEC*",
  "IBE*",
   "JAL*",
  "KAC*".
  "KAL*",
  "KLM*",
  "LAN*",
  "LOT*",
  "LRC*",
  "MXA*".
  "OAL*",
  "RJA*",
  "SAB*",
  "SAS*",
  "SIA*",
"TAP*",
  "THA*",
  "THY*",
  "UAE*",
  "VIR*",
  "VRG*" };
```

```
Runway: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_021204.rwq
taam@grolsh Thu Mar 25 16:31:06 2004
  * Rule "MidnightArr"
  * Active
  if (aircraft . arriving is True
  AND aircraft . time >= 0
  AND aircraft . time <= 615
  AND aircraft . type is_not "38*"
 ) then do NOT use runway { 09L,09,09R,10,10R,11,08,13 };
  * Rule "MidnightDep1"
  * Active
 if (aircraft . departing is True
 AND aircraft . time >= 1
 AND aircraft . time < 600
 AND aircraft . type is_not "38*"
 ) then do NOT use runway { 09L,09,09R,10,10R,11,08,13 };
  * Rule "MidnightDep2"
  * Active
 if (aircraft . name is "*"
 AND aircraft . time >= 2140
 AND aircraft . time <= 2359
 AND aircraft . type is_not "38*"
 ) then do NOT use runway { 09L,09,09R,10,10R,11,08,13 };
  * Rule "10LArr"
  * Active
 if (aircraft . arriving is True
 AND aircraft . time >= 615
 AND aircraft . time < 2140
 ) then do NOT use runway { 10L };
 * Rule "10LDepRchknochg"
 * Active
 if (aircraft . departing is True
 AND aircraft . curr_taxiway is "twy_cl1135"
 ) then DO use runway { 10L };
```

```
Runway: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_021204.rwq
taam@grolsh Thu Mar 25 16:31:06 2004
  * Rule "10L_MidnightDepEntry"
  * Active
 if (aircraft . dep_runway is "10L"
  AND aircraft . time >= 0
  AND aircraft . time < 600
 ) then DO use rw entry/exit { twy_cl554 };
  * Rule "380_Arr"
  * Active
 if (aircraft . arriving is True
 AND aircraft . type is "38*"
 ) then do NOT use runway { 09L,09,09R,10L,10,10R,13 };
  * Rule "08_380only"
  * Active
 if (aircraft . departing is True
 AND aircraft . type is_not "38*"
 ) then do NOT use runway { 08,11 };
  * Rule "11_380Dep"
  * Active
 if (aircraft . name in NONSTAR380
 AND aircraft . type is "38*"
 ) then DO use runway { 11 };
  * Rule "HVY_NOLAHSO"
  * Active
 if (aircraft . arriving is True
 AND aircraft . type in NON_LAHSO_ACFT
 ) then do NOT use runway { 09,10 };
```

```
Runway: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_021204.rwg
taam@grolsh Thu Mar 25 16:31:06 2004
  * Rule "INTARL_NOLAHSO"
  * Active
 if (aircraft . arriving is True
 AND aircraft . name in INT_AIRLINE
 ) then do NOT use runway { 09,10 };
  * Rule "GA_NOLAHSO"
  * Active
 if (aircraft . arriving is True
 AND aircraft . market_seg is 4
 ) then do NOT use runway { 10,09 };
  * Rule "newrk_limitoffld"
  * Active
 if (aircraft . approach_fix is "NEWRK"
 AND runway . name is "13"
 AND runway . arr_queue_length >= 7
 ) then do NOT use runway { 13 };
  * Rule "NEWRK_Shift1"
  * Active
 if (aircraft . approach_fix is "NEWRK"
 AND aircraft . time >= 1205
 AND aircraft . time < 1233
 AND aircraft . type is_not "38*"
 AND runway . name is "09"
 AND runway . arr_queue_length >= 16
 ) then DO use runway { 13 };
```

```
Runway: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_021204.rwg
taam@grolsh Thu Mar 25 16:31:06 2004
  * Rule "newrk_Shift2"
  * Active
 if (aircraft . approach_fix is "NEWRK"
  AND aircraft . time >= 1535
  AND aircraft . time < 1600
  AND aircraft . type is_not "38*"
 AND runway . name is "09"
 AND runway . arr_queue_length >= 16
 ) then DO use runway { 13 };
  * Rule "NEWRKShift1c"
  * Active
 if (aircraft . approach_fix is "NEWRK"
 AND aircraft . time >= 1740
 AND aircraft . time < 1810
 AND aircraft . type is_not "38*"
 AND runway . name is "09"
 AND runway . arr_queue_length >= 16
 ) then DO use runway { 13 };
  * Rule "NEWRK_Shiftla"
  * Active
 if (aircraft . approach_fix is "NEWRK"
 AND aircraft . time >= 1950
 AND aircraft . time < 2030
 AND runway . name is "09"
 AND runway . arr_queue_length >= 16
 ) then DO use runway { 13 };
 * Rule "NEWRK1"
 * Active
 if (aircraft . approach_fix is "NEWRK"
 AND aircraft . name not_in INT_AIRLINE
 AND aircraft . type not_in NON_LAHSO_ACFT
AND aircraft . market_seg is_not 4
AND runway . name is "09"
AND runway . arr_queue_length <= 35
) then DO use runway { 09 };
```

```
Runway: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_021204.rwq
                                                                                                 10
taam@grolsh Thu Mar 25 16:31:06 2004
  * Rule "NEWRK2"
  * Active
 if (aircraft . approach_fix is "NEWRK"
 AND aircraft . name in INT_AIRLINE
 AND runway . name is "09"
 AND runway . arr_queue_length <= 35
 AND aircraft . time >= 530
 AND aircraft . time <= 2359
 ) then DO use runway { 08 };
  * Rule "NEWRK3"
  * Active
 if (aircraft . arriving is True
 AND aircraft . approach_fix is "NEWRK"
 AND runway . name is "09"
 AND runway . arr_queue_length <= 35
 AND aircraft . type in NON_LAHSO_ACFT
 AND aircraft . time >= 530
 AND aircraft . time < 2359
 ) then DO use runway { 08 };
 * Rule "NEWRk3AB"
 * Active
 if (aircraft . approach_fix is "NEWRK"
 AND aircraft . market_seg is 4
 AND runway . name is "09"
AND runway . arr_queue_length <= 35
AND aircraft . time >= 530
AND aircraft . time < 2359
) then DO use runway { 08 };
```

```
Runway: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_021204.rwq
taam@grolsh Thu Mar 25 16:31:06 2004
  * Rule "NEWRK3a"
  * Active
 if (aircraft . arriving is True
 AND aircraft . approach_fix is "NEWRK"
 AND runway . name is "10"
 AND runway . arr_queue_length <= 45
 AND aircraft . name not_in INT_AIRLINE
 AND aircraft . type not_in NON_LAHSO_ACFT
 AND aircraft . market_seg is_not 4
 ) then DO use runway { 13 };
  * Rule "Newrk3b"
  * Active
 if (aircraft . approach_fix is "NEWRK"
 AND runway . name is "10"
 AND runway . arr_queue_length <= 45
 AND aircraft . name in INT_AIRLINE
 ) then DO use runway { 13 };
  * Rule "Newrk3c"
  * Active
 if (aircraft . approach_fix is "NEWRK"
 AND runway . name is "10"
 AND runway . arr_queue_length <= 45
 AND aircraft . type in NON_LAHSO_ACFT
 ) then DO use runway { 13 };
 * Rule "NEWRK3D"
 * Active
 if (aircraft . approach_fix is "NEWRK"
 AND aircraft . market_seg is 4
 AND runway . name is "10"
 AND runway . arr_queue_length <= 45
) then DO use runway { 13 };
```

```
Runway: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_021204.rwq
taam@grolsh Thu Mar 25 16:31:06 2004
   * Rule "NEWRK4"
   * Active
  if (aircraft . approach_fix is "NEWRK"
  AND runway . name is "10R"
  AND runway . arr_queue_length < 35
  ) then DO use runway { 10R };
  * Rule "Krena_Shift1"
  * Active
 if (aircraft . approach_fix is "KRENA"
 AND aircraft . time >= 750
 AND aircraft . time < 830
 ) then DO use runway { 09L };
  * Rule "Krena_Shift2"
  * Active
 if (aircraft . approach_fix is "KRENA"
 AND aircraft . time >= 935
 AND aircraft . time < 1030
) then DO use runway { 09L };
 * Rule "Krena_Shift3"
 * Active
if (aircraft . approach_fix is "KRENA"
AND aircraft . time >= 1155
AND aircraft . time < 1245
) then DO use runway { 09L };
 * Rule "Krena_Shift4"
 * Active
if (aircraft . approach_fix is "KRENA"
AND aircraft . time >= 1435
AND aircraft . time < 1515
) then DO use runway { 09L };
```

```
Runway: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_021204.rwq
taam@grolsh Thu Mar 25 16:31:06 2004
  * Rule "Krena_Shift5"
  * Active
  if (aircraft . approach_fix is "KRENA"
  AND aircraft . time >= 1740
  AND aircraft . time < 1825
  ) then DO use runway { 09L };
  * Rule "Krena_Shift6"
  * Active
 if (aircraft . approach_fix is "KRENA"
 AND aircraft . time >= 1935
 AND aircraft . time < 2015
 ) then DO use runway { 09L };
  * Rule "KRENAO"
  * Active
 if (aircraft . approach_fix is "KRENA"
 AND runway . name is "09L"
 AND runway . arr_queue_length < 10
 ) then DO use runway { 09L };
  * Rule "KRENAI"
  * Active
 if (aircraft . approach_fix is "KRENA"
 AND runway . name is "09"
 AND runway . arr_queue_length <= 15
 AND aircraft . time > 530
 AND aircraft . time <= 2359
 AND aircraft . type not_in NON_LAHSO_ACFT
 AND aircraft . name not_in INT_AIRLINE
 AND aircraft . market_seg is_not 4
 ) then DO use runway { 09 };
```

```
Runway: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_021204.rwg
taam@grolsh Thu Mar 25 16:31:06 2004
  * Rule "KRENA2"
  * Active
 if (aircraft . approach_fix is "KRENA"
 AND aircraft . time > 530
  AND aircraft . type in NON_LAHSO_ACFT
 AND runway . name is "09"
 AND runway . arr_queue_length <= 15
 AND aircraft . time <= 2359
 ) then DO use runway { 08 };
  * Rule "Krena2b"
  * Active
 if (aircraft . approach_fix is "KRENA"
 AND aircraft . time >= 530
 AND aircraft . time <= 2359
 AND aircraft . name in INT_AIRLINE
 AND runway . name is "09"
 AND runway . arr_queue_length <= 15
 ) then DO use runway { 08 };
  * Rule "KRENA3"
  * Active
 if (aircraft . approach_fix is "KRENA"
 AND aircraft . time >= 530
 AND aircraft . time < 2359
 AND aircraft . market_seg is 4
 AND runway . name is "09"
 AND runway . arr_queue_length <= 15
 ) then DO use runway { 08 };
 * Rule "KRENA4"
 * Active
if (aircraft . approach_fix is "KRENA"
) then DO use runway { 09L };
```

```
Runway: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_021204.rwq
taam@grolsh Thu Mar 25 16:31:06 2004
  * Rule "PAYTN_Shift1"
  * Active
 if (aircraft . approach_fix is "PAYTN"
 AND aircraft . time >= 748
 AND aircraft . time < 815
 AND aircraft . type is_not "38*"
 AND aircraft . type not_in NON_LAHSO_ACFT
 AND aircraft . name not_in INT_AIRLINE
 AND aircraft . market_seg is_not 4
 ) then DO use runway { 10 };
  * Rule "PAYTN_Shift1a"
  * Active
 if (aircraft . approach_fix is "PAYTN"
 AND aircraft . time >= 748
 AND aircraft . time < 815
 AND aircraft . name in INT_AIRLINE
 ) then DO use runway { 11 };
 * Rule "PAYTNShift1b"
 * Active
if (aircraft . approach_fix is "PAYTN"
AND aircraft . time >= 748
AND aircraft . time < 815
AND aircraft . type not_in NON_LAHSO_ACFT
) then DO use runway { 11 };
 * Rule "PAYTNShift1c"
 * Active
if (aircraft . approach_fix is "PAYTN"
AND aircraft . time >= 748
AND aircraft . time < 815
AND aircraft . market_seg is 4
) then DO use runway { 11 };
```

```
Runway: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_021204.rwq
                                                                                                   16
taam@grolsh Thu Mar 25 16:31:06 2004
  * Rule "PAYTN_Shift2"
  * Active
 if (aircraft . approach_fix is "PAYTN"
 AND aircraft . time >= 945
 AND aircraft . time < 1030
 AND aircraft . type is_not "38*"
 AND aircraft . type not_in NON_LAHSO_ACFT
 AND aircraft . name not_in INT_AIRLINE
 AND aircraft . market_seg is_not 4
 ) then DO use runway { 10 };
  * Rule "PAYTN_Shift2a"
  * Active
 if (aircraft . approach_fix is "PAYTN"
 AND aircraft . time >= 945
 AND aircraft . time < 1030
 AND aircraft . name in INT_AIRLINE
 ) then DO use runway { 11 };
  * Rule "PAYTNShift2b"
  * Active
 if (aircraft . approach_fix is "PAYTN"
 AND aircraft . time >= 945
 AND aircraft . time < 1030
 AND aircraft . type not_in NON_LAHSO_ACFT
 ) then DO use runway { 11 };
  * Rule "PAYTNShift2c"
 * Active
 if (aircraft . approach_fix is "PAYTN"
 AND aircraft . time >= 945
 AND aircraft . time < 1030
 AND aircraft . market_seg is 4
 ) then DO use runway { 11 };
```

```
Runway: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_021204.rwg
taam@grolsh Thu Mar 25 16:31:06 2004
  * Rule "PAYTN_Shift3"
  * Active
 if (aircraft . approach_fix is "PAYTN"
 AND aircraft . time >= 1155
 AND aircraft . time < 1233
 AND aircraft . type is_not "38*"
 AND aircraft . type not_in NON_LAHSO_ACFT
 AND aircraft . name not_in INT_AIRLINE
 AND aircraft . market_seg is_not 4
 ) then DO use runway { 10 };
  * Rule "PAYTN_Shift3a"
  * Active
 if (aircraft . approach_fix is "PAYTN"
 AND aircraft . time >= 1155
 AND aircraft . time < 1233
 AND aircraft . name in INT_AIRLINE
 ) then DO use runway { 11 };
 * Rule "PAYTNShift3b"
 * Active
if (aircraft . approach_fix is "PAYTN"
AND aircraft . time >= 1155
AND aircraft . time < 1233
AND aircraft . type not_in NON_LAHSO_ACFT
) then DO use runway { 11 };
 * Rule "PAYTNShift3c"
 * Active
if (aircraft . approach_fix is "PAYTN"
AND aircraft . time >= 1155
AND aircraft . time < 1233
AND aircraft . market_seg is 4
) then DO use runway { 11 };
```

```
Runway: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_021204.rwq
                                                                                                    18
taam@grolsh Thu Mar 25 16:31:06 2004
  * Rule "PAYTN_Shift4"
  * Active
  if (aircraft . approach_fix is "PAYTN"
  AND aircraft . time >= 1233
  AND aircraft . time < 1255
  AND aircraft . type is_not "38*"
  ) then DO use runway { 10R };
  * Rule "PAYTN_Shift6"
  * Active
 if (aircraft . approach_fix is "PAYTN"
 AND aircraft . time >= 1340
 AND aircraft . time < 1356
 AND aircraft . type is_not "38*"
 ) then DO use runway { 10R };
  * Rule "PAYTN_Shift7"
  * Active
 if (aircraft . approach_fix is "PAYTN"
 AND aircraft . time >= 1435
 AND aircraft . time < 1450
 AND aircraft . type is_not "38*"
 AND aircraft . type not_in NON_LAHSO_ACFT
 AND aircraft . name not_in INT_AIRLINE
 AND aircraft . market_seg is_not 4
 ) then DO use runway { 10 };
  * Rule "PAYTN_Shift7a"
  * Active
 if (aircraft . approach_fix is "PAYTN"
 AND aircraft . time >= 1435
 AND aircraft . time < 1450
 AND aircraft . name in INT_AIRLINE
) then DO use runway { 11 };
```

```
Runway: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_021204.rwq
taam@grolsh Thu Mar 25 16:31:06 2004
  * Rule "PAYTNShift7b"
  * Active
  if (aircraft . approach_fix is "PAYTN"
  AND aircraft . time >= 1435
  AND aircraft . time < 1450
  AND aircraft . type not_in NON_LAHSO_ACFT
  ) then DO use runway { 11 };
  * Rule "PAYTNShift7c"
  * Active
 if (aircraft . approach_fix is "PAYTN"
 AND aircraft . time >= 1435
 AND aircraft . time < 1450
 AND aircraft . market_seg is 4
 ) then DO use runway { 11 };
  * Rule "PAYTN_Shift8"
  * Active
 if (aircraft . approach_fix is "PAYTN"
 AND aircraft . time >= 1505
 AND aircraft . time <= 1600
 AND aircraft . type is_not "38*"
 ) then do NOT use runway { 08,09 };
  * Rule "PAYTN_Shift1a_1"
  * Active
 if (aircraft . approach_fix is "PAYTN"
 AND aircraft . time >= 1510
 AND aircraft . time < 1518
 ) then DO use runway { 10R };
```

```
Runway: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_021204.rwq
                                                                                                   20
taam@grolsh Thu Mar 25 16:31:06 2004
  * Rule "PAYTN_Shift9"
  * Active
  if (aircraft . approach_fix is "PAYTN"
  AND aircraft . time >= 1545
  AND aircraft . time < 1600
  AND aircraft . type is_not "38*"
 ) then DO use runway { 10R };
  * Rule "PAYTN_Shift10"
  * Active
 if (aircraft . approach_fix is "PAYTN"
 AND aircraft . time >= 1645
 AND aircraft . time < 1655
 AND runway . name is "09L"
 AND runway . arr_queue_length >= 10
 ) then DO use runway { 10R };
  * Rule "PAYTN_Shift11"
  * Active
 if (aircraft . approach_fix is "PAYTN"
 AND aircraft . time >= 1655
 AND aircraft . time < 1710
 AND aircraft . type is_not "38*"
 AND aircraft . type not_in NON_LAHSO_ACFT
 AND aircraft . name not_in INT_AIRLINE
 AND aircraft . market_seg is_not 4
 ) then DO use runway { 10 };
  * Rule "PAYTN_Shift11a"
  * Active
 if (aircraft . approach_fix is "PAYTN"
 AND aircraft . time >= 1655
 AND aircraft . time < 1710
 AND aircraft . name in INT_AIRLINE
) then DO use runway { 11 };
```

```
Runway: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_021204.rwq
taam@grolsh Thu Mar 25 16:31:06 2004
  * Rule "PAYTNShift11b"
  * Active
  if (aircraft . approach_fix is "PAYTN"
 AND aircraft . time >= 1655
  AND aircraft . time < 1710
 AND aircraft . type not_in NON_LAHSO_ACFT
 ) then DO use runway { 11 };
  * Rule "PAYTNShift11c"
  * Active
 if (aircraft . approach_fix is "PAYTN"
 AND aircraft . time >= 1655
 AND aircraft . time < 1710
 AND aircraft . market_seg is 4
 ) then DO use runway { 11 };
  * Rule "PAYTN_Shift12"
  * Active
 if (aircraft . approach_fix is "PAYTN"
 AND aircraft . time >= 1740
 AND aircraft . time < 1815
 AND aircraft . type is_not "38*"
 ) then DO use runway { 10R };
  * Rule "PAYTNShift1c_1"
  * Active
 if (aircraft . approach_fix is "PAYTN"
 AND aircraft . time >= 1842
 AND aircraft . time < 1857
 ) then DO use runway { 10R };
```

```
Runway: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_021204.rwg
taam@grolsh Thu Mar 25 16:31:06 2004
  * Rule "PAYTN_Shift14"
  * Active
  if (aircraft . approach_fix is "PAYTN"
  AND aircraft . time >= 1930
  AND aircraft . time < 1945
  AND aircraft . type is_not "38*"
  AND aircraft . type not_in NON_LAHSO_ACFT
  AND aircraft . name not_in INT_AIRLINE
  AND aircraft . market_seg is_not 4
 ) then DO use runway { 10 };
  * Rule "PAYTN_Shift14a"
  * Active
 if (aircraft . approach_fix is "PAYTN"
 AND aircraft . time >= 1930
 AND aircraft . time < 1945
 AND aircraft . name in INT_AIRLINE
 ) then DO use runway { 11 };
  * Rule "PAYTNShift14b"
  * Active
 if (aircraft . approach_fix is "PAYTN"
 AND aircraft . time >= 1930
 AND aircraft . time < 1945
 AND aircraft . type not_in NON_LAHSO_ACFT
 ) then DO use runway { 11 };
  * Rule "PAYTNShift14c"
 * Active
 if (aircraft . approach_fix is "PAYTN"
 AND aircraft . time >= 1930
 AND aircraft . time < 1945
 AND aircraft . market_seg is 4
) then DO use runway { 11 };
```

```
Runway: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_021204.rwq
taam@grolsh Thu Mar 25 16:31:06 2004
   * Rule "PAYTNShift13c"
  * Active
 if (aircraft . approach_fix is "PAYTN"
  AND aircraft . time >= 1945
  AND aircraft . time < 2010
 ) then DO use runway { 10R };
  * Rule "PAYTN_Shift1_2"
  * Active
 if (aircraft . approach_fix is "PAYTN"
 AND aircraft . time >= 2010
 AND aircraft . time < 2015
 AND aircraft . type is_not "38*"
 AND aircraft . type not_in NON_LAHSO_ACFT
 AND aircraft . name not_in INT_AIRLINE
 AND aircraft . market_seg is_not 4
 ) then DO use runway { 10 };
  * Rule "PAYTNShift1b_2"
  * Active
 if (aircraft . approach_fix is "PAYTN"
 AND aircraft . time >= 2010
 AND aircraft . time < 2015
 AND aircraft . type not_in NON_LAHSO_ACFT
 ) then DO use runway { 11 };
 * Rule "PAYTNShift1b_3"
 * Active
if (aircraft . approach_fix is "PAYTN"
 AND aircraft . time >= 2010
AND aircraft . time < 2015
AND aircraft . type not_in INT_AIRLINE
) then DO use runway { 11 };
```

```
Runway: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_021204.rwq
                                                                                                    24
taam@grolsh Thu Mar 25 16:31:06 2004
  * Rule "PAYTNShift1c_2"
  * Active
 if (aircraft . approach_fix is "PAYTN"
 AND aircraft . time >= 2010
 AND aircraft . time < 2015
 AND aircraft . market_seg is 4
 ) then DO use runway { 11 };
  * Rule "PAYTN1"
  * Active
 if (aircraft . approach_fix in NorthEastArrFixes
 AND runway . name is "09L"
 AND runway . arr_queue_length <= 16
 AND aircraft . time > 530
 ) then DO use runway { 09L };
  * Rule "PAYTN2"
  * Active
 if (aircraft . approach_fix in NorthEastArrFixes
 AND aircraft . time > 530
 AND aircraft . type not_in NON_LAHSO_ACFT
 AND aircraft . name not_in INT_AIRLINE
 AND runway . name is "09"
 AND runway . arr_queue_length < 14
 AND aircraft . market_seg is_not 4
) then DO use runway { 09 };
 * Rule "Paytn2a"
 * Active
if (aircraft . approach_fix in NorthEastArrFixes
AND aircraft . time >= 530
AND runway . name is "09"
AND runway . arr_queue_length < 14
AND aircraft . market_seg is 4
) then DO use runway { 08 };
```

```
Runway: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_021204.rwg
taam@grolsh Thu Mar 25 16:31:06 2004
   * Rule "PAYTN2b"
   * Active
  if (aircraft . arriving is True
  AND aircraft . approach_fix in NorthEastArrFixes
  AND aircraft . time > 530
  AND runway . name is "09"
  AND runway . arr_queue_length < 14
  AND aircraft . type in NON_LAHSO_ACFT
 ) then DO use runway { 08 };
  * Rule "PAYTN2c"
  * Active
 if (aircraft . approach_fix in NorthEastArrFixes
 AND aircraft . time >= 530
 AND aircraft . time < 2359
 AND runway . name is "09"
 AND runway . arr_queue_length < 14
 AND aircraft . name in INT_AIRLINE
 ) then DO use runway { 08 };
  * Rule "PAYTN3"
  * Active
 if (aircraft . arriving is True
 AND aircraft . approach_fix in NorthEastArrFixes
 AND aircraft . time >= 530
 ) then DO use runway { 09L };
  * Rule "BRZShift1"
 * Active
 if (aircraft . approach_fix is "BEARZ"
 AND aircraft . time >= 1050
 AND aircraft . time <= 1130
 AND runway . name is "10R"
 AND runway . arr_queue_length >= 15
) then DO use runway { 09L };
```

```
Runway: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_021204.rwq
taam@grolsh Thu Mar 25 16:31:06 2004
  * Rule "BRZShift3"
  * Active
  if (aircraft . approach_fix is "BEARZ"
  AND aircraft . time >= 1835
  AND aircraft . time <= 1845
 ) then do NOT use runway { 10R,09L };
  * Rule "BRZShift4"
  * Active
 if (aircraft . approach_fix is "BEARZ"
 AND aircraft . time >= 1340
 AND aircraft . time < 1350
 ) then do NOT use runway { 10R };
  * Rule "BEARZ1"
  * Active
 if (aircraft . approach_fix is "BEARZ"
 AND runway . name is "10"
 AND runway . arr_queue_length <= 19
 AND aircraft . time > 530
 AND aircraft . market_seg is_not 4
 AND aircraft . type not_in NON_LAHSO_ACFT
 AND aircraft . name not_in INT_AIRLINE
 ) then DO use runway { 10 };
  * Rule "BEARZ1a"
  * Active
 if (aircraft . approach_fix is "BEARZ"
 AND runway . name is "10"
 AND runway . arr_queue_length <= 19
 AND aircraft . time > 530
 AND aircraft . market_seg is 4
 ) then DO use runway { 11 };
```

```
Runway: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_021204.rwq
taam@grolsh Thu Mar 25 16:31:06 2004
  * Rule "Bearz1b"
  * Active
 if (aircraft . approach_fix is "BEARZ"
 AND runway . name is "10"
 AND runway . arr_queue_length <= 19
 AND aircraft . time > 530
 AND aircraft . type in NON_LAHSO_ACFT
 ) then DO use runway { 11 };
  * Rule "BEARZIc"
  * Active
 if (aircraft . approach_fix is "BEARZ"
 AND aircraft . time >= 530
 AND aircraft . time < 2359
 AND aircraft . name in INT_AIRLINE
 AND runway . name is "10"
 AND runway . arr_queue_length <= 19
 ) then DO use runway { 11 };
 * Rule "BEARZ3"
 * Active
if (aircraft . approach_fix is "BEARZ"
AND runway . name is "09L"
AND runway . arr_queue_length < 10
) then DO use runway { 09L };
 * Rule "BEARZ2"
 * Active
if (aircraft . approach_fix is "BEARZ"
AND runway . name is "10R"
AND runway . arr_queue_length < 25
) then DO use runway { 10R };
* Rule "BEARZ2z"
* Active
if (aircraft . approach_fix is "BEARZ"
) then DO use runway { 11 };
```

```
Runway: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_021204.rwg
                                                                                                    28
taam@grolsh Thu Mar 25 16:31:06 2004
  * Rule "EBShift1"
  * Active
 if (aircraft . departing is True
  AND aircraft . departure_fix is "ORDEB"
  AND aircraft . time >= 1205
  AND aircraft . time < 1235
 ) then do NOT use runway { 10R,09R };
  * Rule "EBShift1_1"
  * Active
 if (aircraft . departure_fix is "ORDEB"
 AND aircraft . time >= 1735
 AND aircraft . time < 1805
 ) then DO use runway { 10L };
  * Rule "ECShift1"
  * Active
 if (aircraft . departing is True
 AND aircraft . departure_fix is "ORDEC"
 AND aircraft . time >= 805
 AND aircraft . time < 1030
 ) then DO use runway { 09R };
  * Rule "ECShift2"
  * Active
 if (aircraft . departing is True
 AND aircraft . departure_fix is "ORDEC"
 AND aircraft . time >= 1815
 AND aircraft . time < 1850
) then DO use runway { 09R };
```

```
Runway: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_021204.rwq
taam@grolsh Thu Mar 25 16:31:06 2004
  * Rule "ECDeps2a"
  * Active
 if (aircraft . departing is True
 AND aircraft . departure_fix is "ORDEC"
 AND aircraft . time >= 1910
 AND aircraft . time <= 1935
 ) then DO use runway { 09R };
  * Rule "ECShift3"
  * Active
 if (aircraft . departing is True
 AND aircraft . departure_fix is "ORDEC"
 AND aircraft . time >= 1410
 AND aircraft . time <= 1505
 ) then DO use runway { 09R };
 * Rule "SASBShift1"
 * Active
 if (aircraft . departing is True
AND aircraft . departure_fix in SASB
AND aircraft . time >= 755
AND aircraft . time < 854
) then DO use runway { 10L };
 * Rule "SASBShift3"
 * Active
if (aircraft . departing is True
AND aircraft . departure_fix in SASB
AND aircraft . time >= 950
AND aircraft . time < 1100
) then DO use runway { 10L };
```

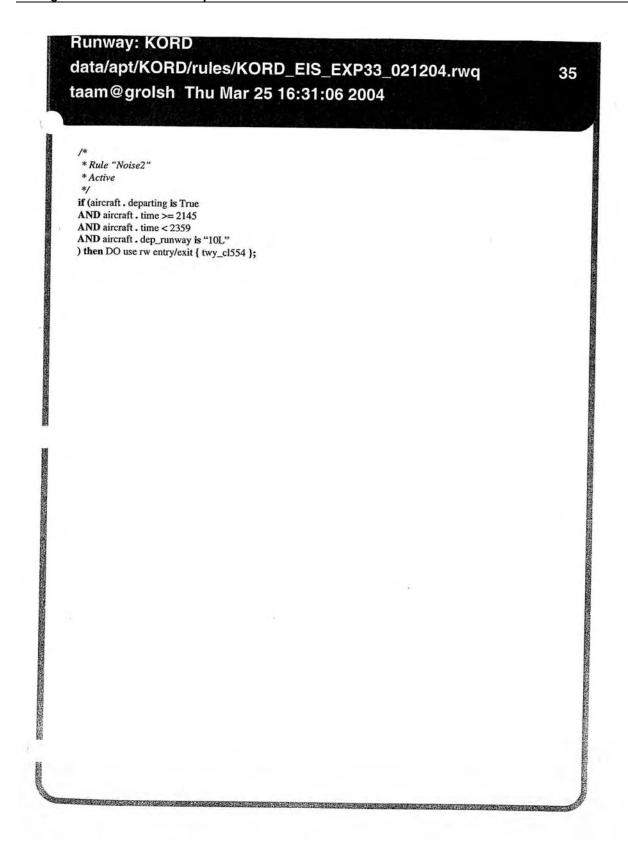
```
Runway: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_021204.rwq
                                                                                                     30
taam@grolsh Thu Mar 25 16:31:06 2004
  * Rule "SASBShift4"
  * Active
 if (aircraft . departing is True
 AND aircraft . departure_fix in SASB
 AND aircraft . time >= 1115
 AND aircraft . time < 1205
 ) then DO use runway { 10L };
  * Rule "SASBShift4_1"
  * Active
 if (aircraft . departing is True
 AND aircraft . departure_fix in SASB
 AND aircraft . time >= 1429
 AND aircraft . time < 1545
 ) then DO use runway { 10L };
 * Rule "SASBShift5"
 * Active
 if (aircraft . departing is True
 AND aircraft . departure_fix in SASB
 AND aircraft . time >= 1630
AND aircraft . time <= 1740
) then DO use runway { 10L };
 * Rule "SASBShift6"
 * Active
if (aircraft . departing is True
AND aircraft . departure_fix in SASB
AND aircraft . time >= 1845
AND aircraft . time < 2220
) then DO use runway { 10L };
```

```
Runway: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_021204.rwq
taam@grolsh Thu Mar 25 16:31:06 2004
   * Rule "SASBWCWDShift1"
   * Active
  if (aircraft . departing is True
  AND aircraft . departure_fix in 10RDepJet
  AND aircraft . time >= 600
  AND aircraft . time < 655
  ) then DO use runway { 10L };
   * Rule "SASBWCWDShift2"
  * Active
 if (aircraft . departing is True
  AND aircraft . departure_fix in 10RDepJet
  AND aircraft . time >= 720
 AND aircraft . time < 755
 ) then DO use runway { 10L };
  * Rule "SASBWCWDShift3"
  * Active
 if (aircraft . departing is True
 AND aircraft . departure_fix in SASB
 AND aircraft . time >= 1245
 AND aircraft . time <= 1300
 ) then DO use runway { 10L };
  * Rule "SCShift1"
  * Active
 if (aircraft . departing is True
 AND aircraft . departure_fix is "ORDSC"
 AND aircraft . time >= 1315
 AND aircraft . time < 1403
 ) then DO use runway { 10R };
```

```
Runway: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_021204.rwg
                                                                                                      32
taam@grolsh Thu Mar 25 16:31:06 2004
  * Rule "SCShift1_1"
  * Active
 if (aircraft . departing is True
 AND aircraft . departure_fix is "ORDSC"
 AND aircraft . time >= 1545
 AND aircraft . time < 1629
 ) then DO use runway { 10R };
  * Rule "SCShift2"
  * Active
 if (aircraft . departing is True
 AND aircraft . departure_fix is "ORDSC"
 AND aircraft . time >= 1740
 AND aircraft . time <= 1800
 ) then DO use runway { 10R };
  * Rule "08_380Dep"
  * Active
 if (aircraft . departing is True
 AND aircraft . type is "38*"
AND aircraft . name in STAR380
) then DO use runway { 08 };
 * Rule "09R_Dep"
 * Active
if (aircraft . departing is True
AND aircraft . departure_fix in 09RDepJets
AND aircraft . type is_not "380"
) then DO use runway { 09R };
 * Rule "10L_Dep"
 * Active
if (aircraft . departing is True
AND aircraft . departure_fix in 10LDepJets
) then DO use runway { 10L };
```

```
Runway: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_021204.rwg
                                                                                                     33
taam@grolsh Thu Mar 25 16:31:06 2004
   * Rule "10R_Dep"
  * Active
  if (aircraft . departing is True
  AND aircraft . departure_fix in 10RDepJet
  AND aircraft . arr_airport not_in EurAsian
 ) then DO use runway { 10R };
  * Rule "10R_WstCst"
  * Active
 if (aircraft . departing is True
 AND aircraft . arr_airport in WstCst
 AND aircraft . type in BigII
 ) then do NOT use runway { 10R };
  * Rule "10_LongHaulDeps"
  * Active
 if (aircraft . departing is True
 AND aircraft . arr_airport in long_haul
 ) then DO use runway { 10L };
  * Rule "08Entrance1"
 * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "08"
) then DO use rw entry/exit { twy_cl322 };
 * Rule "09R_DepEntry"
 * Active
if (aircraft . dep_runway is "09R"
) then DO use rw entry/exit { twy_cl817 };
```

```
Runway: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_021204.rwq
                                                                                                      34
taam@grolsh Thu Mar 25 16:31:06 2004
  * Rule "10L_DepEntry"
  * Active
 if (aircraft . dep_runway is "10L"
 AND aircraft . arr_airport not_in long_haul
 ) then DO use rw entry/exit { twy_cl584 };
  * Rule "10L_LgHlEntry"
  * Active
 if (aircraft . dep_runway is "10L"
 AND aircraft . arr_airport in long_haul
 ) then DO use rw entry/exit { twy_cl554 };
  * Rule "LongHl_10LUse"
  * Active
 if (aircraft . departing is True
 AND aircraft . arr_airport in long_haul
 ) then do NOT use runway { 09R,10R };
 * Rule "380_11_Exits"
 * Active
 if (aircraft . arriving is True
 AND aircraft . type is "38*"
) then do NOT use rw entry/exit { twy_cl514,twy_cl502,twy_cl484,twy_cl476 };
 * Rule "Noise1"
 * Active
if (aircraft . departing is True
AND aircraft . time >= 1
AND aircraft . time < 530
AND aircraft . dep_runway is "10L"
) then DO use rw entry/exit { twy_cl554 };
```



```
SidStar: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_011204.ssq
taam@grolsh Thu Mar 25 16:31:36 2004
  * Group "SBND"
  group SBND = {
    "RBS",
    "EON",
    "WORDY",
    "GUIDO" };
  * Group "SCSD"
 group SCSD = {
    "ORDSC",
   "ORDSD" };
  * Group "10L_DepEntryRechk"
 group 10L_DepEntryRechk = {
   "twy_cl566",
   "twy_cl1135" };
  * Rule "NighttimeSID1"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . time >= 1
 AND aircraft . time < 600
 AND aircraft . departure_fix is "ORDWA2"
 ) then DO use SID { KORD_10L_ORDWA2_33J.sid };
 * Rule "NighttimeSID2"
 * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . time >= 600
AND aircraft . time < 2200
AND aircraft . departure_fix is "ORDWA2"
) then do NOT use SID { KORD_10L_ORDWA2_33J.sid };
```

```
SidStar: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_011204.ssq
taam@grolsh Thu Mar 25 16:31:36 2004
  * Rule "NighttimeSID3"
  * Active
  if (aircraft . departing is True
  AND aircraft . dep_runway is "10L"
  AND aircraft . time >= 2200
  AND aircraft . time <= 2359
  AND aircraft . departure_fix is "ORDWA2"
 ) then DO use SID { KORD_10L_ORDWA2_33J.sid };
  * Rule "NighttimeSID4"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . time >= 1
 AND aircraft . time < 600
 AND aircraft . departure_fix is "ORDWB2"
 ) then DO use SID { KORD_10L_ORDWB2_33J.sid };
  * Rule "NighttimeSID5"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . time >= 600
 AND aircraft . time < 2200
 AND aircraft . departure_fix is "ORDWB2"
) then do NOT use SID { KORD_10L_ORDWB2_33J.sid };
 * Rule "NighttimeSID6"
 * Active
if (aircraft . departing is True
AND aircraft . dep_runway is "10L"
AND aircraft . time >= 2200
AND aircraft . time <= 2359
AND aircraft . departure_fix is "ORDWB2"
) then DO use SID { KORD_10L_ORDWB2_33J.sid };
```

```
SidStar: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_011204.ssq
taam@grolsh Thu Mar 25 16:31:36 2004
  * Rule "NighttimeSID7"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . time >= 1
 AND aircraft . time < 600
 AND aircraft . departure_fix is "ORDWC2"
 ) then DO use SID { KORD_10L_ORDWC2_33J.sid };
  * Rule "NighttimeSID8"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . time >= 600
 AND aircraft . time < 2200
 AND aircraft . departure_fix is "ORDWC2"
 ) then do NOT use SID { KORD_10L_ORDWC2_33J.sid };
  * Rule "NighttimeSID9"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . time >= 2200
 AND aircraft . time <= 2359
 AND aircraft . departure_fix is "ORDWC2"
) then DO use SID { KORD_10L_ORDWC2_33J.sid };
 * Rule "NighttimeSID10"
 * Active
if (aircraft . departing is True
AND aircraft . dep_runway is "10L"
AND aircraft . time >= 1
AND aircraft . time < 600
AND aircraft . departure_fix is "ORDWD2"
) then DO use SID { KORD_10L_ORDWD2_33J.sid };
```

```
SidStar: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_011204.ssq
taam@grolsh Thu Mar 25 16:31:36 2004
  * Rule "NighttimeSID11"
  * Active
 if (aircraft . departing is True
  AND aircraft . dep_runway is "10L"
  AND aircraft . time >= 600
 AND aircraft . time < 2200
 AND aircraft . departure_fix is "ORDWD2"
 ) then do NOT use SID { KORD_10L_ORDWD2_33J.sid };
  * Rule "NighttimeSID12"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . time >= 2200
 AND aircraft . time <= 2359
 AND aircraft . departure_fix is "ORDWD2"
 ) then DO use SID { KORD_10L_ORDWD2_33J.sid };
 * Rule "NighttimeSID13"
 * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . time >= 1
 AND aircraft . time < 600
 AND aircraft . departure_fix is "BAE"
 ) then DO use SID { KORD_10L_BAE_33J.sid };
 * Rule "NighttimeSID14"
 * Active
if (aircraft . departing is True
AND aircraft . dep_runway is "10L"
AND aircraft . time >= 600
AND aircraft . time < 2200
AND aircraft . departure_fix is "BAE"
) then do NOT use SID { KORD_10L_BAE_33J.sid };
```

```
SidStar: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_011204.ssq
taam@grolsh Thu Mar 25 16:31:36 2004
  * Rule "NighttimeSID15"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . time >= 2200
 AND aircraft . time <= 2359
 AND aircraft . departure_fix is "BAE"
 ) then DO use SID { KORD_10L_BAE_33J.sid };
  * Rule "NighttimeSID16"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . time >= 1
 AND aircraft . time < 600
 AND aircraft . departure_fix is "PETTY"
 ) then DO use SID { KORD_10L_PETTY_33J.sid };
 * Rule "NighttimeSID17"
 * Active
if (aircraft . departing is True
AND aircraft . dep_runway is "10L"
AND aircraft . time >= 600
AND aircraft . time < 2200
AND aircraft . departure_fix is "PETTY"
) then do NOT use SID { KORD_10L_PETTY_33J.sid };
 * Rule "NighttimeSID18"
 * Active
if (aircraft . departing is True
AND aircraft . dep_runway is "10L"
AND aircraft . time >= 2200
AND aircraft . time <= 2359
AND aircraft . departure_fix is "PETTY"
) then DO use SID { KORD_10L_PETTY_33J.sid };
```

```
SidStar: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_011204.ssq
taam@grolsh Thu Mar 25 16:31:36 2004
  * Rule "NighttimeSID19"
  * Active
  if (aircraft . departing is True
  AND aircraft . dep_runway is "10L"
  AND aircraft . time >= 1
  AND aircraft . time < 600
  AND aircraft . departure_fix is "ORDEA"
 ) then DO use SID { KORD_10L_ORDEA_33J.sid };
  * Rule "NighttimeSID20"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . time >= 600
 AND aircraft . time < 2200
 AND aircraft . departure_fix is "ORDEA"
 ) then do NOT use SID { KORD_10L_ORDEA_33J.sid };
  * Rule "NighttimeSID21"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . time >= 2200
 AND aircraft . time <= 2359
 AND aircraft . departure_fix is "ORDEA"
 ) then DO use SID { KORD_10L_ORDEA_33J.sid };
 * Rule "NighttimeSID22"
 * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . time >= 1
AND aircraft . time < 600
AND aircraft . departure fix is "ORDEB"
) then DO use SID { KORD_10L_ORDEB_33J.sid };
```

```
SidStar: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_011204.ssq
taam@grolsh Thu Mar 25 16:31:36 2004
  * Rule "NighttimeSID23"
  * Active
 if (aircraft . departing is True
  AND aircraft . dep_runway is "10L"
  AND aircraft . time >= 600
  AND aircraft . time < 2200
 AND aircraft . departure_fix is "ORDEB"
 ) then do NOT use SID { KORD_10L_ORDEB_33J.sid };
  * Rule "NighttimeSID24"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . time >= 2200
 AND aircraft . time <= 2359
 AND aircraft . departure_fix is "ORDEB"
 ) then DO use SID { KORD_10L_ORDEB_33J.sid };
 * Rule "NighttimeSID25"
 * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . time >= 1
 AND aircraft . time < 600
 AND aircraft . departure_fix is "ORDECJ"
 ) then DO use SID { KORD_10L_ORDEC_33J.sid };
 * Rule "NighttimeSID26"
 * Active
if (aircraft . departing is True
AND aircraft . dep_runway is "10L"
AND aircraft . time >= 600
AND aircraft . time < 2200
AND aircraft . departure_fix is "ORDEC"
) then do NOT use SID { KORD_10L_ORDEC_33J.sid };
```

```
SidStar: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_011204.ssq
taam@grolsh Thu Mar 25 16:31:36 2004
  * Rule "NighttimeSID27"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . time >= 2200
 AND aircraft . time <= 2359
 AND aircraft . departure_fix is "ORDEC"
 ) then DO use SID { KORD_10L_ORDEC_33J.sid };
  * Rule "NighttimeSID31"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . time >= 1
 AND aircraft . time < 600
 AND aircraft . departure_fix is "ORDSA"
 ) then DO use SID { KORD_10L_ORDSA_33J.sid };
  * Rule "NighttimeSID32"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . time >= 600
 AND aircraft . time < 2200
 AND aircraft . departure_fix is "ORDSA"
 ) then do NOT use SID { KORD_10L_ORDSA_33J.sid };
 * Rule "NighttimeSID33"
 * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . time >= 2200
AND aircraft . time <= 2359
AND aircraft . departure_fix is "ORDSA"
) then DO use SID { KORD_10L_ORDSA_33J.sid };
```

```
SidStar: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_011204.ssq
taam@grolsh Thu Mar 25 16:31:36 2004
  * Rule "NighttimeSID34"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . time >= 1
 AND aircraft . time < 600
 AND aircraft . departure_fix is "ORDSB"
 ) then DO use SID { KORD_10L_ORDSB_33J.sid };
  * Rule "NighttimeSID35"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . time >= 600
 AND aircraft . time < 2200
 AND aircraft . departure_fix is "ORDSB"
 ) then do NOT use SID { KORD_10L_ORDSB_33J.sid };
  * Rule "NighttimeSID36"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . time >= 2200
 AND aircraft . time <= 2359
 AND aircraft . departure_fix is "ORDSB"
) then DO use SID { KORD_10L_ORDSB_33J.sid };
 * Rule "NighttimeSID37"
 * Active
if (aircraft . departing is True
AND aircraft . dep_runway is "10L"
AND aircraft . time >= 1
AND aircraft . time < 600
AND aircraft . departure_fix is "ORDSC"
) then DO use SID { KORD_10L_ORDSC_33J.sid };
```

```
SidStar: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_011204.ssq
                                                                                                     10
taam@grolsh Thu Mar 25 16:31:36 2004
   * Rule "NighttimeSID38"
   * Active
  if (aircraft . departing is True
  AND aircraft . dep_runway is "10L"
  AND aircraft . time >= 600
  AND aircraft . time < 2200
  AND aircraft . departure_fix is "ORDSC"
  ) then do NOT use SID { KORD_10L_ORDSC_33J.sid };
  * Rule "NighttimeSID39"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . time >= 2200
 AND aircraft . time <= 2359
 AND aircraft . departure_fix is "ORDSC"
 ) then DO use SID { KORD_10L_ORDSC_33J.sid };
  * Rule "NighttimeSID40"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . time >= 1
 AND aircraft . time < 600
 AND aircraft . departure_fix is "ORDSD"
) then DO use SID { KORD_10L_ORDSD_33J.sid };
 * Rule "NighttimeSID41"
 * Active
if (aircraft . departing is True
AND aircraft . dep_runway is "10L"
AND aircraft . time >= 600
AND aircraft . time < 2200
AND aircraft . departure_fix is "ORDSD"
) then do NOT use SID { KORD_10L_ORDSD_33J.sid };
```

```
SidStar: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_011204.ssq
taam@grolsh Thu Mar 25 16:31:36 2004
  * Rule "NighttimeSID42"
  * Active
  if (aircraft . departing is True
  AND aircraft . dep_runway is "10L"
  AND aircraft . time >= 2200
 AND aircraft . time <= 2359
 AND aircraft . departure_fix is "ORDSD"
 ) then DO use SID { KORD_10L_ORDSD_33J.sid };
  * Rule "NighttimeSID43"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . time >= 1
 AND aircraft . time < 600
 AND aircraft . departure_fix is "ORDSE"
 ) then DO use SID { KORD_10L_ORDSE_33J.sid };
 * Rule "NighttimeSID44"
 * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . time >= 600
 AND aircraft . time < 2200
 AND aircraft . departure_fix is "ORDSE"
) then do NOT use SID { KORD_10L_ORDSE_33J.sid };
 * Rule "NighttimeSID45"
 * Active
if (aircraft . departing is True
AND aircraft . dep_runway is "10L"
AND aircraft . time >= 2200
AND aircraft . time <= 2359
AND aircraft . departure_fix is "ORDSE"
) then DO use SID { KORD_10L_ORDSE_33J.sid };
```

```
SidStar: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_011204.ssq
taam@grolsh Thu Mar 25 16:31:36 2004
  * Rule "Rockford_Arr"
  * Active
 if (aircraft . dep_airport is "KRFD"
 ) then DO use STAR { KORD_09L_KRENA_335.sta };
  * Rule "Rockford_Arr2"
  * Active
 if (aircraft . dep_airport is_not "KRFD"
 ) then do NOT use STAR { KORD_09L_KRENA_335.sta };
  * Rule "KMKE_ARR"
  * Active
 if (aircraft . dep_airport is "KMKE"
 AND aircraft . arr_airport is "KORD"
 AND aircraft . arr_runway is "09L"
 ) then DO use STAR { KORD_09L_MKE150018_331 };
 * Rule "KMKE_ARR2"
 * Active
if (aircraft . dep_airport is "KMKE"
AND aircraft . arr_airport is "KORD"
AND aircraft . arr_runway is "09"
) then DO use SID { KORD_09_KMKE150018_331 };
 * Rule "10L_SidChg1"
 * Active
if (aircraft . dep_runway is "10L"
AND aircraft . curr_taxiway is "twy_cl1135"
AND aircraft . departure_fix is "ORDSA"
) then DO use SID { KORD_10L_ORDSA_331,KORD_10L_ORDSA_336 };
```

```
SidStar: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_011204.ssq
taam@grolsh Thu Mar 25 16:31:36 2004
  * Rule "10L_SidChg2"
  * Active
  if (aircraft . dep_runway is "10L"
  AND aircraft . curr_taxiway is "twy_cl1135"
  AND aircraft . departure_fix is "ORDSB"
 ) then DO use SID { KORD_10L_ORDSB_331,KORD_10L_ORDSB_336 };
  * Rule "10L_SidChg3"
  * Active
 if (aircraft . dep_runway is "10L"
 AND aircraft . curr_taxiway is "twy_cl1135"
 AND aircraft . departure_fix is "ORDSC"
 ) then DO use SID { KORD_10L_ORDSC_331,KORD_10L_ORDSC_336 };
  * Rule "10L_SidChg4"
  * Active
 if (aircraft . dep_runway is "10L"
 AND aircraft . curr_taxiway is "twy_cl1135"
 AND aircraft . departure_fix is "ORDSD"
 ) then DO use SID { KORD_10L_ORDSD_331,KORD_10L_ORDSD_336 };
  * Rule "10L_SidChg5"
  * Active
 if (aircraft . dep_runway is "10L"
 AND aircraft . curr_taxiway is "twy_cl1135"
 AND aircraft . departure_fix is "ORDSE"
 ) then DO use SID { KORD_10L_ORDSE_331,KORD_10L_ORDSE_336 };
 * Rule "10L_SidChg6"
 * Active
 if (aircraft . dep_runway is "10L"
 AND aircraft . curr_taxiway is "twy_cl1135"
 AND aircraft . departure_fix is "ORDWC2"
) then DO use SID { KORD_10L_ORDWC2_331,KORD_10L_ORDWC2_336 };
```

```
SidStar: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_011204.ssq
taam@grolsh Thu Mar 25 16:31:36 2004
  * Rule "10L_SidChg7"
  * Active
 if (aircraft . dep_runway is "10L"
 AND aircraft . curr_taxiway is "twy_cl1135"
 AND aircraft . departure_fix is "ORDWD2"
 ) then DO use SID { KORD_10L_ORDWD2_331,KORD_10L_ORDWD2_336 };
  * Rule "10L_SidChg1_1"
  * Active
 if (aircraft . dep_runway is "10L"
 AND aircraft . arr_airport is "S*"
 ) then do NOT use SID { KORD_10L_ORDSE_332 };
  * Rule "10L_SidChg1_2"
  * Active
 if (aircraft . dep_runway is "10L"
 AND aircraft . arr_airport is "S*"
 ) then do NOT use SID { KORD_10L_ORDSC_332 };
 * Rule "10L_SidChg1_3"
 * Active
if (aircraft . dep_runway is "10L"
AND aircraft . name is "EGF553D"
AND aircraft . departure_fix is "ORDSC"
) then do NOT use SID { KORD_10L_ORDSC_332 };
```

```
Sequencing: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_0104.seq
taam@grolsh Thu Mar 25 16:32:15 2004
  * Group "WAWB"
 group WAWB = {
   "ORDWA2",
   "ORDWB2" };
  * Group "BigGuys"
 group BigGuys = {
   "74*",
"77*",
   "38*" };
  * Group "BAEPTYMATRU"
 group BAEPTYMATRU = {
   "BAE",
   "PETTY",
   "MATRU" };
 * Group "WBNBBAEPTY"
 group WBNBBAEPTY = {
   "ORDWA2",
  "ORDWB2",
   "BAE",
  "PETTY",
   "MATRU" };
 * Group "EAEB"
 group EAEB = {
  "ORDEA",
  "ORDEB" };
 * Group "SCSDSE"
group SCSDSE = {
  "ORDSC",
"ORDSD",
  "ORDSE" };
```

```
Sequencing: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_0104.seq
                                                                                 2
taam@grolsh Thu Mar 25 16:32:15 2004
  * Group "EAEB_1"
 group EAEB_1 = \{ \};
  * Group "WAWBBAEPETTY"
 group WAWBBAEPETTY = {
   "ORDWA2",
   "ORDWB2",
   "BAE",
   "PETTY",
   "MATRU" };
 * Group "WCWD"
 group WCWD = {
   "ORDWC2",
   "ORDWD2" };
 * Group "SASB"
 group SASB = {
  "ORDSA",
  "ORDSB" };
 * Group "SASBSCSCSDSE"
group SASBSCSCSDSE = {
  "ORDSA",
  "ORDSB",
  "ORDSC",
  "ORDSD",
  "ORDSE" };
 * Group "EBEC"
group EBEC = {
  "ORDEB",
  "ORDEC" };
```

```
Sequencing: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_0104.seq
                                                                                 3
taam@grolsh Thu Mar 25 16:32:15 2004
  * Group "EAEBECSASBSCSDSE"
 group EAEBECSASBSCSDSE = {
   "ORDEA",
   "ORDEB",
   "ORDEC".
   "ORDSA",
   "ORDSB",
   "ORDSC",
   "ORDSD",
   "ORDSE" };
 * Group "0809R"
 group 0809R = {
  "08",
  "09R" };
 * Group "BAEPTYORDEABC"
 group BAEPTYORDEABC = {
  "BAE",
  "PETTY",
  "ORDEA",
  "ORDEB",
  "ORDEC",
  "MATRU" };
 * Group "10L11"
group 10L11 = {
  "10L",
  "11" };
* Group "BAEMATRU"
group BAEMATRU = {
  "MATRU" };
```

```
Sequencing: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_0104.seq
taam@grolsh Thu Mar 25 16:32:15 2004
  * Group "5DMESIDS"
 group 5DMESIDS = {
   "KORD_10L_ORDEA_331",
   "KORD_10L_ORDEB_331",
   "KORD_10L_ORDEC_331",
   "KORD_10L_ORDSA_331",
   "KORD_10L_ORDSB_331",
   "KORD_10L_ORDSC_331",
   "KORD_10L_ORDSD_331",
   "KORD_10L_ORDSE_331",
   "KORD_10L_ORDEB_336",
   "KORD_10L_ORDEC_336",
   "KORD_10L_ORDSA_336",
   "KORD_10L_ORDSB_336",
   "KORD_10L_ORDSC_336",
   "KORD_10L_ORDSD_336",
   "KORD_10L_ORDSE_336",
   "KORD_10L_ORDEA_336" };
 * Group "WCWD_332337Sids"
 group WCWD_332337Sids = {
   "KORD_10L_ORDWC2_332",
   "KORD_10L_ORDWC2_337",
   "KORD_10L_ORDWD2_332",
   "KORD_10L_ORDWD2_337" );
 * Group "SASB_332337Sids"
 group SASB_332337Sids = {
   "KORD_10L_ORDSA_332",
  "KORD_10L_ORDSA_337",
  "KORD_10L_ORDSB_332",
  "KORD_10L_ORDSB_337" };
 * Group "SC332337SIDS"
group SC332337SIDS = {
  "KORD_10L_ORDSC_332",
  "KORD_10L_ORDSC_337" };
```

```
Sequencing: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_0104.seq
taam@grolsh Thu Mar 25 16:32:15 2004
  * Group "SDSE332337Sids"
 group SDSE332337Sids = {
   "KORD_10L_ORDSD_332",
   "KORD_10L_ORDSD_337",
   "KORD_10L_ORDSE_332",
   "KORD_10L_ORDSE_337" };
 * Group "WCWD_331336Sids"
 group WCWD_331336Sids = {
   "KORD_10L_ORDWC2_331",
  "KORD_10L_ORDWC2_336",
  "KORD_10L_ORDWD2_331",
  "KORD_10L_ORDWD2_336" };
 * Group "SASB_331336Sids"
 group SASB_331336Sids = {
  "KORD_10L_ORDSA_331",
  "KORD_10L_ORDSA_336",
  "KORD_10L_ORDSB_331",
  "KORD_10L_ORDSB_336" };
 * Group "SC331336SIDS"
group SC331336SIDS = {
  "KORD_10L_ORDSC_331",
  "KORD_10L_ORDSC_336",
  "KORD_10L_ORDSA_331",
  "KORD_10L_ORDSB_331" };
```

```
Sequencing: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_0104.seq
taam@grolsh Thu Mar 25 16:32:15 2004
  * Group "SDSE331336Sids"
 group SDSE331336Sids = {
   "KORD_10L_ORDSD_331",
   "KORD_10L_ORDSD_336",
   "KORD_10L_ORDSE_331",
   "KORD_10L_ORDSE_336",
   "KORD_10L_ORDSC_331",
   "KORD_10L_ORDSC_336",
   "KORD_10L_ORDSA_331",
   "KORD_10L_ORDSA_336",
   "KORD_10L_ORDSB_331",
   "KORD_10L_ORDSB_331",
   "KORD_10L_ORDWC2_331",
   "KORD_10L_ORDWD2_331" };
  * Rule "09_dep_space"
  * Active
 if (aircraft . rwy_entry_point is "twy_cl817"
 AND runway . name is "09R"
 AND prev_aircraft . wake_turb_cat <= 1
 AND prev_aircraft . rwy_entry_point is "twy_c1807"
 ) then departure separation { 3 min };
 * Rule "10L_dep_space"
 * Active
 if (aircraft . rwy_entry_point is "twy_cl584"
 AND runway . name is "10L"
 AND prev_aircraft . rwy_entry_point is "twy_cl554"
 AND prev_aircraft . wake_turb_cat <= 1
 ) then departure separation { 3 min };
 * Rule "08_09RWkTurb1"
 * Active
if (aircraft . dep_runway is "09R"
AND aircraft . wake_turb_cat <= 3
AND prev_aircraft . dep_runway is "08"
AND prev_aircraft . wake_turb_cat is 0
) then departure separation { 2 min };
```

```
Sequencing: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_0104.seq
taam@grolsh Thu Mar 25 16:32:15 2004
  * Rule "08_09RWkTurb2"
  * Active
 if (aircraft . dep_runway is "09R"
 AND aircraft . wake_turb_cat > 3
 AND prev_aircraft . dep_runway is "08"
 AND prev_aircraft . wake_turb_cat is 0
 ) then departure separation { 3 min };
  * Rule "08_09RWkTurb3"
  * Active
 if (aircraft . dep_runway is "09R"
 AND aircraft . wake_turb_cat <= 3
 AND prev_aircraft . dep_runway is "08"
 AND prev_aircraft . wake_turb_cat is 1
 ) then departure separation { 1 min };
  * Rule "08_09RWkTurb4"
  * Active
 if (aircraft . dep_runway is "09R"
 AND aircraft . wake_turb_cat is 4
 AND prev_aircraft . dep_runway is "08"
 AND prev_aircraft . wake_turb_cat is 2
 ) then departure separation { 3 min };
 * Rule "08_09RWkTurb5"
 * Active
 if (aircraft . dep_runway is "08"
 AND aircraft . wake_turb_cat <= 3
 AND prev_aircraft . dep_runway is "09R"
 AND prev_aircraft . wake_turb_cat is 0
) then departure separation { 2 \min };
```

```
Sequencing: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_0104.seq
taam@grolsh Thu Mar 25 16:32:15 2004
  * Rule "08_09RWkTurb6"
  * Active
 if (aircraft . dep_runway is "08"
 AND aircraft . wake_turb_cat > 3
 AND prev_aircraft . dep_runway is "09R"
 AND prev_aircraft . wake_turb_cat is 0
 ) then departure separation { 3 min };
  * Rule "08_09WkTurb7"
  * Active
 if (aircraft . dep_runway is "08".
 AND aircraft . wake_turb_cat <= 3
 AND prev_aircraft . dep_runway is "09R"
 AND prev_aircraft . wake_turb_cat is 1
 ) then departure separation { 1 min };
 * Rule "08_09WkTurb8"
 * Active
if (aircraft . dep_runway is "08"
AND aircraft . wake_turb_cat is 4
AND prev_aircraft . dep_runway is "09R"
AND prev_aircraft . wake_turb_cat is 2
) then departure separation { 3 min };
 * Rule "10L_11WkTurb1"
 * Active
if (aircraft . dep_runway is "11"
AND aircraft . wake_turb_cat <= 3
AND prev_aircraft . dep_runway is "10L"
AND prev_aircraft . wake_turb_cat is 0
) then departure separation { 2 min };
```

```
Sequencing: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_0104.seq
taam@grolsh Thu Mar 25 16:32:15 2004
  * Rule "10L_11WkTurb2"
  * Active
  if (aircraft . dep_runway is "11"
  AND aircraft . wake_turb_cat > 3
  AND prev_aircraft . dep_runway is "10L"
  AND prev_aircraft . wake_turb_cat is 0
 ) then departure separation { 3 min };
  * Rule "10L_11WkTurb3"
  * Active
 if (aircraft . dep_runway is "11"
 AND aircraft . wake_turb_cat <= 3
 AND prev_aircraft . dep_runway is "10L"
 AND prev_aircraft . wake_turb_cat is 1
 ) then departure separation { 1 min };
  * Rule "10L_11WkTurb4"
  * Active
 if (aircraft . dep_runway is "11"
 AND aircraft . wake_turb_cat is 4
 AND prev_aircraft . dep_runway is "10L"
 AND prev_aircraft . wake_turb_cat is 2
 ) then departure separation { 3 min };
 * Rule "10L_11WkTurb5"
  * Active
 if (aircraft . dep_runway is "10L"
 AND aircraft . wake_turb_cat <= 3
 AND prev_aircraft . dep_runway is "11"
 AND prev_aircraft . wake_turb_cat is 0
) then departure separation { 2 min };
```

```
Sequencing: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_0104.seq
taam@grolsh Thu Mar 25 16:32:15 2004
  * Rule "10L_10WkTurb6"
  * Active
 if (aircraft . dep_runway is "10L"
  AND aircraft . wake_turb_cat > 3
  AND prev_aircraft . dep_runway is "11"
 AND prev_aircraft . wake_turb_cat is 0
 ) then departure separation { 3 min };
  * Rule "10L_11WkTurb7"
  * Active
 if (aircraft . dep_runway is "10L"
 AND aircraft . wake_turb_cat <= 3
 AND prev_aircraft . dep_runway is "11"
 AND prev_aircraft . wake_turb_cat is 1
 ) then departure separation { 1 min };
  * Rule "10L_10WkTurb8"
  * Active
 if (aircraft . dep_runway is "10L"
 AND aircraft . wake_turb_cat is 4
 AND prev_aircraft . dep_runway is "11"
 AND prev_aircraft . wake_turb_cat is 2
 ) then departure separation { 3 min };
 * Rule "DepDepSep1"
 * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "09R"
 AND aircraft . departure_fix is "ORDWB2"
 AND prev_aircraft . dep_runway is "09R"
 AND prev_aircraft . departure_fix is "ORDWB2"
) then departure separation { 4 nm };
```

```
Sequencing: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_0104.seq
taam@grolsh Thu Mar 25 16:32:15 2004
  * Rule "DepDepSep2"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "09R"
 AND aircraft . departure_fix is "ORDWA2"
 AND prev_aircraft . dep_runway is "09R"
 AND prev_aircraft . departure_fix is "ORDWA2"
 ) then departure separation { 4 nm };
  * Rule "DepDepSep3"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "09R"
 AND aircraft . departure_fix in BAEPTYMATRU
 AND prev_aircraft . dep_runway is "09R"
 AND prev_aircraft . departure_fix in BAEPTYMATRU
 ) then departure separation { 4 nm };
  * Rule "DepDepSep5"
 * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "09R"
 AND aircraft . departure_fix is "ORDEA"
 AND prev_aircraft . dep_runway is "09R"
 AND prev_aircraft . departure_fix is "ORDEA"
) then departure separation { 4 nm };
 * Rule "DepDepSep6"
 * Active
if (aircraft . departing is True
AND aircraft . dep_runway is "09R"
AND aircraft . departure_fix is "ORDEB"
AND prev_aircraft . dep_runway is "09R"
AND prev_aircraft . departure_fix is "ORDEB"
) then departure separation { 4 nm };
```

```
Sequencing: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_0104.seq
                                                                                                       12
taam@grolsh Thu Mar 25 16:32:15 2004
  * Rule "DepDepSep7"
  * Active
  if (aircraft . departing is True
  AND aircraft . dep_runway is "09R"
  AND aircraft . departure_fix is "ORDEC"
  AND prev_aircraft . dep_runway is "09R"
 AND prev_aircraft . departure_fix is "ORDEC"
 ) then departure separation { 4 nm };
  * Rule "DepDepSep14"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "09R"
 AND aircraft . departure_fix is "ORDSE"
 AND prev_aircraft . dep_runway is "09R"
 AND prev_aircraft . departure_fix is "ORDSE"
 ) then departure separation { 4 nm };
 * Rule "DepDepSep13"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "09R"
 AND aircraft . departure_fix is "ORDSD"
 AND prev_aircraft . dep_runway is "09R"
 AND prev_aircraft . departure_fix is "ORDSD"
 ) then departure separation { 4 nm };
 * Rule "DepDepSep15"
 * Active
if (aircraft . departing is True
AND aircraft . dep_runway is "09R"
AND aircraft . departure_fix is "ORDSC"
AND prev_aircraft . dep_runway is "09R"
AND prev_aircraft . departure_fix is "ORDSC"
) then departure separation { 4 nm };
```

```
Sequencing: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_0104.seq
taam@grolsh Thu Mar 25 16:32:15 2004
  * Rule "DepDepSep16"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . departure_fix is "ORDEC"
 AND prev_aircraft . dep_runway is "10L"
 AND prev_aircraft . departure_fix is "ORDEC"
 ) then departure separation { 4 nm };
  * Rule "DepDepSep18"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . departure_fix is "ORDSE"
 AND prev_aircraft . dep_runway is "10L"
 AND prev_aircraft . departure_fix is "ORDSE"
 ) then departure separation { 4 nm };
 * Rule "DepDepSep19"
 * Active
if (aircraft . departing is True
AND aircraft . dep_runway is "10L"
AND aircraft . departure_fix is "ORDSD"
AND prev_aircraft . dep_runway is "10L"
AND prev_aircraft . departure_fix is "ORDSD"
) then departure separation { 4 nm };
 * Rule "DepDepSep20"
 * Active
if (aircraft . departing is True
AND aircraft . dep_runway is "10L"
AND aircraft . departure_fix is "ORDSC"
AND prev_aircraft . dep_runway is "10L"
AND prev_aircraft . departure_fix is "ORDSC"
) then departure separation { 4 nm };
```

```
Sequencing: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_0104.seq
taam@grolsh Thu Mar 25 16:32:15 2004
  * Rule "DepDepSep21"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . departure_fix is "ORDSB"
 AND prev_aircraft . dep_runway is "10L"
 AND prev_aircraft . departure_fix is "ORDSB"
 ) then departure separation { 4 nm };
  * Rule "DepDepSep22"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . departure_fix is "ORDSA"
 AND prev_aircraft . dep_runway is "10L"
 AND prev_aircraft . departure_fix is "ORDSA"
 ) then departure separation { 4 nm };
  * Rule "DepDepSep23"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . departure_fix is "ORDWC2"
 AND prev_aircraft . dep_runway is "10L"
 AND prev_aircraft . departure_fix is "ORDWC2"
 ) then departure separation { 4 nm };
 * Rule "DepDepSep24"
 * Active
if (aircraft . departing is True
AND aircraft . dep_runway is "10L"
AND aircraft . departure_fix is "ORDWD2"
AND prev_aircraft . dep_runway is "10L"
AND prev_aircraft . departure_fix is "ORDWD2"
) then departure separation { 4 nm };
```

```
Sequencing: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_0104.seq
                                                                                                      15
taam@grolsh Thu Mar 25 16:32:15 2004
  * Rule "DepDepSep9"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10R"
 AND aircraft . departure_fix is "ORDWC2"
 AND prev_aircraft . dep_runway is "10R"
 AND prev_aircraft . departure_fix is "ORDWC2"
 ) then departure separation { 4 nm };
  * Rule "DepDepSep10"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10R"
 AND aircraft . departure_fix is "ORDWD2"
 AND prev_aircraft . dep_runway is "10R"
 AND prev_aircraft . departure_fix is "ORDWD2"
 ) then departure separation { 4 nm };
 * Rule "DepDepSep11"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10R"
 AND aircraft . departure_fix is "ORDSA"
 AND prev_aircraft . dep_runway is "10R"
 AND prev_aircraft . departure_fix is "ORDSA"
) then departure separation { 4 nm };
 * Rule "DepDepSep12"
 * Active
if (aircraft . departing is True
AND aircraft . dep_runway is "10R"
AND aircraft . departure_fix is "ORDSB"
AND prev_aircraft . dep_runway is "10R"
AND prev_aircraft . departure_fix is "ORDSB"
) then departure separation { 4 nm };
```

```
Sequencing: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_0104.seq
                                                                                                      16
taam@grolsh Thu Mar 25 16:32:15 2004
  * Rule "DepDepSep25"
  * Active
 if (aircraft . departing is True
  AND aircraft . dep_runway is "10R"
  AND aircraft . departure_fix is "ORDSC"
  AND prev_aircraft . name is "10R"
  AND prev_aircraft . name is "ORDSC"
 ) then departure separation { 4 nm };
  * Rule "DepDepSep26"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10R"
 AND aircraft . departure_fix is "ORDSD"
 AND prev_aircraft . name is "10R"
 AND prev_aircraft . name is "ORDSD"
 ) then departure separation { 4 nm };
  * Rule "DepDepSep27"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10R"
 AND aircraft . departure_fix is "ORDSE"
 AND prev_aircraft . dep_runway is "10R"
 AND prev_aircraft . departure_fix is "ORDSE"
 ) then departure separation { 4 nm };
 * Rule "DepDepSep28"
 * Active
if (aircraft . departing is True
AND aircraft . dep_runway is "10L"
 AND aircraft . departure_fix is "ORDEA"
AND prev_aircraft . dep_runway is "10L"
AND prev_aircraft . departure_fix is "ORDEA"
) then departure separation { 4 nm };
```

```
Sequencing: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_0104.seq
                                                                                                      17
taam@grolsh Thu Mar 25 16:32:15 2004
  * Rule "DepDepSep29"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . departure_fix is "ORDEB"
 AND prev_aircraft . dep_runway is "10L"
 AND prev_aircraft . departure_fix is "ORDEB"
 ) then departure separation { 4 nm };
  * Rule "DepDepSep30"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "09R"
 AND aircraft . departure_fix in EBEC
 AND prev_aircraft . dep_runway is "09R"
 AND prev_aircraft . departure_fix in EBEC
 ) then departure separation { 3 nm };
 * Rule "DepDepSep31a"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . SID in 5DMESIDS
 AND prev_aircraft . dep_runway is "10L"
 AND prev_aircraft . SID in 5DMESIDS
 ) then departure separation { 3 nm };
 * Rule "DepDepSep31b"
 * Active
if (aircraft . departing is True
AND aircraft . dep_runway is "10L"
AND aircraft . SID in WCWD_332337Sids
AND prev_aircraft . dep_runway is "10L"
AND prev_aircraft . SID in WCWD_332337Sids
) then departure separation { 3 nm };
```

```
Sequencing: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_0104.seq
                                                                                                     18
taam@grolsh Thu Mar 25 16:32:15 2004
  * Rule "DepDepSep31C"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . SID in SASB_332337Sids
 AND prev_aircraft . dep_runway is "10L"
 AND prev_aircraft . SID in SASB_332337Sids
 ) then departure separation { 3 nm };
  * Rule "DepDepSep31d"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . SID in SC332337SIDS
 AND prev_aircraft . dep_runway is "10L"
 AND prev_aircraft . SID in SC332337SIDS
 ) then departure separation { 3 nm };
 * Rule "DepDepSep31E"
 * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . SID in SDSE332337Sids
AND prev_aircraft . dep_runway is "10L"
AND prev_aircraft . SID in SDSE332337Sids
) then departure separation { 3 nm };
 * Rule "DepDepSep31f"
 * Active
if (aircraft . departing is True
AND aircraft . dep_runway is "10L"
AND aircraft . SID in WCWD_332337Sids
AND prev_aircraft . dep_runway is "10L"
AND prev_aircraft . SID in WCWD_331336Sids
) then departure separation { 5 nm };
```

```
Sequencing: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_0104.seq
                                                                                                     19
taam@grolsh Thu Mar 25 16:32:15 2004
  * Rule "DepDepSep31h"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . SID in SASB_332337Sids
 AND prev_aircraft . dep_runway is "10L"
 AND prev_aircraft . SID in SDSE331336Sids
 ) then departure separation { 5 nm };
  * Rule "DepDepSep31i"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . SID in SC332337SIDS
 AND prev_aircraft . dep_runway is "10L"
 AND prev_aircraft . SID in SC331336SIDS
 ) then departure separation { 5 nm };
 * Rule "DepDepSep31J"
 * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . SID in SDSE332337Sids
 AND prev_aircraft . dep_runway is "10L"
 AND prev_aircraft . SID in SDSE331336Sids
) then departure separation { 5 nm };
 * Rule "08_09RDepDepSep"
 * Active
if (aircraft . departing is True
AND aircraft . dep_runway is "08"
AND prev_aircraft . dep_runway is "09R"
AND prev_aircraft . departure_fix is "ORDEA"
) then departure separation { 4 nm };
```

```
Sequencing: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_0104.seq
                                                                                                     20
taam@grolsh Thu Mar 25 16:32:15 2004
  * Rule "DepDepSep32"
  * Active
 if (aircraft . dep_runway is "10R"
 AND aircraft . departure_fix in WCWD
  AND prev_aircraft . dep_runway is "10R"
 AND prev_aircraft . departure_fix in WCWD
 ) then departure separation { 3 nm };
  * Rule "DepDepSep33"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "09R"
 AND aircraft . departure_fix in WAWB
 AND prev_aircraft . dep_runway is "09R"
 AND prev_aircraft . departure_fix in WAWB
 ) then departure separation { 3 nm };
  * Rule "10L_10RWkTurbSep1"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . departure_fix in WCWD
 AND prev_aircraft . dep_runway is "10R"
 AND prev_aircraft . departure_fix in WCWD
 ) then departure separation { 1 min };
 * Rule "10L_10WkTurbSep1a"
 * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10R"
 AND aircraft . departure_fix in WCWD
 AND prev_aircraft . dep_runway is "10L"
AND prev_aircraft . departure_fix in WCWD
) then departure separation { 1 min };
```

```
Sequencing: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_0104.seq
                                                                                                     21
taam@grolsh Thu Mar 25 16:32:15 2004
  * Rule "10L_10RWkTurbSep2"
  * Active
 if (aircraft . departing is True
  AND aircraft . dep_runway is "10L"
  AND aircraft . departure_fix in SASB
 AND prev_aircraft . dep_runway is "10R"
 AND prev_aircraft . departure_fix in SASB
 ) then departure separation { 1 min };
  * Rule "10L_10RWkTurbSep2a"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10R"
 AND aircraft . departure_fix in SASB
 AND prev_aircraft . dep_runway is "10L"
 AND prev_aircraft . departure_fix in SASB
 ) then departure separation { 2.0 min };
  * Rule "10L_HvyDep_WkTurbSep1"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway in 0809R
 AND aircraft . departure_fix in BAEPTYORDEABC
 AND prev_aircraft . dep_runway in 10L11
 AND prev_aircraft . departure_fix in WBNBBAEPTY
 AND prev_aircraft . wake_turb_cat < 2
) then departure separation { 2 min };
 * Rule "09R_HvyDep_WkTurbSep2"
 * Active
if (aircraft . dep_runway is "10L"
AND aircraft . departure_fix in WAWBBAEPETTY
AND prev_aircraft . dep_runway is "09R"
AND prev_aircraft . wake_turb_cat < 2
) then departure separation { 2 min };
```

```
Sequencing: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_0104.seq
taam@grolsh Thu Mar 25 16:32:15 2004
  * Rule "10L_10RWkTurbSep3a"
  * Active
 if (aircraft . departing is True
  AND aircraft . dep_runway is "10R"
  AND aircraft . departure_fix is "ORDSC"
  AND prev_aircraft . dep_runway is "10L"
 AND prev_aircraft . departure_fix is "ORDSC"
 ) then departure separation { 2.4 min };
  * Rule "10L_10RWkTurbSep4"
  * Active
 if (aircraft . dep_runway is "10R"
 AND prev_aircraft . dep_runway is "10L"
 AND prev_aircraft . departure_fix in WCWD
 ) then departure separation { 1.1 min };
  * Rule "10L_10RWKTurbSep5"
  * Active
 if (aircraft . dep_runway is "10R"
 AND aircraft . departure_fix is "ORDSB"
 AND prev_aircraft . dep_runway is "10L"
 AND prev_aircraft . departure_fix is "ORDSA"
 ) then departure separation { 1.6 min };
  * Rule "10L_10RWkTurb6"
  * Active
 if (aircraft . dep_runway is "10R"
 AND aircraft . departure_fix is "ORDSB"
 AND prev_aircraft . dep_runway is "10L"
 AND prev_aircraft . departure_fix is "ORDSB"
) then departure separation { 2.1 min };
```

```
Sequencing: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_0104.seq
                                                                                                    23
taam@grolsh Thu Mar 25 16:32:15 2004
  * Rule "08Dep09Arr"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "08"
 AND runway . name is "09"
 AND runway . occupied is True
 ) then do not depart { };
  * Rule "10RArrSep"
  * Active
 if (aircraft . arr_runway is "10R"
 AND runway . name is "10R"
 AND runway . num_taxiing_for_dep > 5
 ) then arrival separation { 4 nm };
 * Rule "09R_10LWkTurbSep"
 * Active
 if (aircraft . dep_runway is "09R"
 AND aircraft . departure_fix is "ORDEA"
 AND prev_aircraft . dep_runway is "10L"
AND prev_aircraft . departure_fix is "ORDEA"
) then departure separation { 1.1 min };
 * Rule "09R_10LWkTurb2"
 * Active
if (aircraft . dep_runway is "10L"
AND aircraft . departure_fix is "ORDEA"
AND prev_aircraft . dep_runway is "09R"
AND prev_aircraft . departure_fix is "ORDEA"
) then departure separation { 1.1 min };
```

```
Sequencing: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_0104.seq
                                                                                                     24
taam@grolsh Thu Mar 25 16:32:15 2004
  * Rule "09R_10LWkTurb3"
  * Active
 if (aircraft . dep_runway is "10L"
  AND aircraft . departure_fix is "ORDEB"
 AND prev_aircraft . dep_runway is "09R"
 AND prev_aircraft . departure_fix is "ORDEB"
 ) then departure separation { 1.1 min };
  * Rule "09R_10LWkTurb4"
  * Active
 if (aircraft . dep_runway is "09R"
 AND aircraft . departure_fix is "ORDEB"
 AND prev_aircraft . dep_runway is "10L"
 AND prev_aircraft . departure_fix is "ORDEB"
 ) then departure separation { 1.1 min };
  * Rule "09R_10LWkTurb5"
  * Active
 if (aircraft . dep_runway is "10L"
 AND aircraft . departure_fix is "ORDEC"
 AND prev_aircraft . dep_runway is "09R"
 AND prev_aircraft . departure_fix is "ORDEC"
 ) then departure separation { 1.5 min };
 * Rule "09R_10LWkTurb6"
 * Active
if (aircraft . dep_runway is "09R"
AND aircraft . departure_fix is "ORDEC"
AND prev_aircraft . dep_runway is "10L"
AND prev_aircraft . departure_fix is "ORDEC"
) then departure separation { 1.1 min };
```

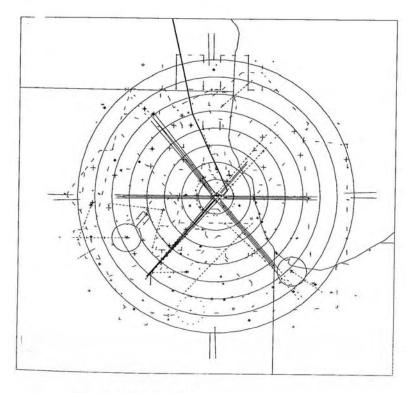
```
Sequencing: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_0104.seq
                                                                                                       25
taam@grolsh Thu Mar 25 16:32:15 2004
  * Rule "09R_10LWkTurb8"
  * Active
 if (aircraft . dep_runway is "09R"
 AND aircraft . departure_fix is "BAE"
 AND prev_aircraft . dep_runway is "10L"
 AND prev_aircraft . departure_fix is "BAE"
 ) then departure separation { 1.5 min };
  * Rule "09R_10LWkTurb7"
  * Active
 if (aircraft . dep_runway is "09R"
 AND aircraft . departure_fix is "PETTY"
 AND prev_aircraft . dep_runway is "10L"
 AND prev_aircraft . departure_fix is "PETTY"
 ) then departure separation { 1.5 min };
 * Rule "09R_10LWkTurb9"
 * Active
 if (aircraft . dep_runway is "10L"
 AND aircraft . departure_fix is "BAE"
 AND prev_aircraft . dep_runway is "09R"
 AND prev_aircraft . departure_fix is "BAE"
) then departure separation { 1 min };
 * Rule "09R_10LWkTurb10"
 * Active
if (aircraft . dep_runway is "10L"
AND aircraft . departure_fix is "PETTY"
AND prev_aircraft . dep_runway is "09R"
AND prev_aircraft . departure_fix is "PETTY"
) then departure separation { 1 min };
 * Rule "09R_10dEPwKTurb"
 * Active
if (aircraft . dep_runway is "09R"
AND prev_aircraft . dep_runway is "11"
) then departure separation { 2.5 min };
```

```
Sequencing: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_0104.seg
                                                                                                    26
taam@grolsh Thu Mar 25 16:32:15 2004
  * Rule "10L_09RWkTurb11"
  * Active
 if (aircraft . dep_runway is "10L"
 AND prev_aircraft . departure_fix in BAEPTYMATRU
 AND prev_aircraft . dep_runway is "09R"
 AND prev_aircraft . departure_fix in BAEPTYORDEABC
 ) then departure separation { 0.75 min };
  * Rule "10L_09RWkTurb"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "09R"
 AND prev_aircraft . dep_runway is "10L"
 AND prev_aircraft . departure_fix in WAWBBAEPETTY
 ) then departure separation { 1.1 min };
  * Rule "10R_EveGap2"
  * Active
 if (aircraft, arriving is True
 AND aircraft . arr_runway is "10R"
 AND prev_aircraft . arr_runway is "10R"
 AND aircraft . time >= 1645
 AND aircraft . time < 1730
 ) then arrival separation { 4 nm };
 * Rule "10L_Prop_Sep"
 * Active
if (aircraft . dep_runway is "10L"
AND prev_aircraft . dep_runway is "10L"
AND prev_aircraft . type is "C210"
) then departure separation { 3 min };
```

```
Sequencing: KORD
data/apt/KORD/rules/KORD_EIS_EXP33_0104.seq
                                                                                              27
taam@grolsh Thu Mar 25 16:32:15 2004
  * Rule "10L_09RWkTurb5"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "10L"
 AND aircraft . departure_fix in BAEPTYMATRU
 AND prev_aircraft . dep_runway is "09R"
 AND prev_aircraft . departure_fix in BAEPTYMATRU
 ) then arrival separation { 1 min };
  * Rule "09r_10lwbounddeps"
  * Active
 if (aircraft . departing is True
 AND aircraft . dep_runway is "09R"
 AND prev_aircraft . dep_runway is "10L"
 AND prev_aircraft . departure_fix in WAWB
 ) then departure separation { 3.2 min };
```

	Group: Jet: Display:	H ⊠			Tprop:	H H⊠	M≰ M	L ₪	Piston:	A ⊠ A	
Mainta	Maintain runway heading										
Do no	t climb above 50	00 unt	il 8.0	DME	ORD		-				
Reach	3000 FT or abo	ve by	5.0 E	ME O	RD				-		
Reach	4000 FT or abo	ve by	8.0 E	ME O	RD						
At 250	0 FT turn Auto a	and tra	ck dir	ectly to	ORD600	VC)R				
At 0.1	DME ORD600	turn	Auto a	and tra	ck directly	to OR	D591	VO	3	-	
At 0.1	DME ORD591	turn .	Auto a	ınd tra	ck directly	to BA	E V	OR		-	
Track	to BAE and as	flight	olanne	d				_			

8 to BAE

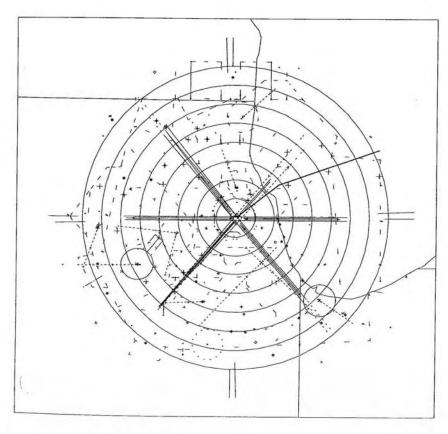


Project: KORD_EIS_EXP33

Printed by taam

Group: Jet: Hø Mø Lø Tprop: H□ Mo Lo Piston: A Display: H L A Maintain runway heading Do not climb above 5000 until 10.0 DME ORD At 1600 FT turn Left heading 055 When crossing 090 radial PWK VOR turn Auto and track directly to ORDEA VOR At 0.1 DME ORDEA turn Auto and track directly to ORDEA Track to ORDEA and as flight planned

8 to ordea

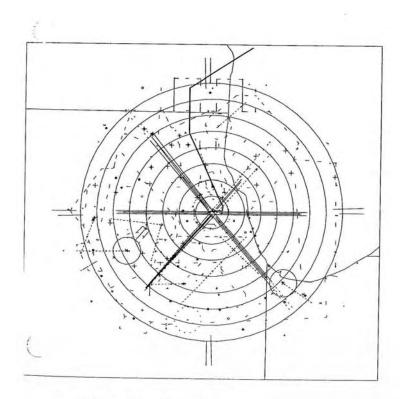


Project: KORD_EIS_EXP33

Printed by taam

	Group: Display:		H	-		Tprop:	H ⊠	M≰ M	L Ø L	Piston:	A ⋈ A
Maintai	in runway	headi	ing								
Do not	climb abo	ve 50	00 unt	il 8.0	DME	ORD					
Reach	3000 FT o	r abo	ve by	5.0 E	OME O	RD					
At 3000	FT turn A	Auto a	and tra	ck dir	ectly to	ORD600	VC	DR			
At 0.1	DME ORI	D600	turn	Auto a	and tra	ck directly	to OR	D241	VOR		_
At 0.1	DME ORI	0241	turn	Auto a	and trac	ck directly	to OR	D591	VOR		_
At 0.1	DME ORI	0591	turn /	Auto a	and hea	ading 003				-	_
When c	rossing 24	40 rad	lial PH	ETTY	VOR	turn Auto	and t	rack di	rectly to	PETTY	VOF
Track to	PETTY	and a	as flig	ht plai	nned						

8 to PETY

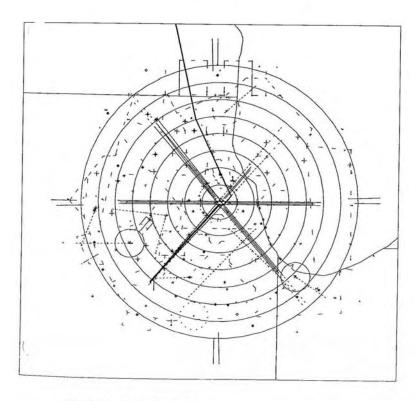


Project: KORD_EIS_EXP33

Printed by taam

	Group: Jet: Display:				Tprop:	H	M≰ M	L ₪	Piston:	A ⊠ A
Mainta	in runway head	ing								
Do not	climb above 50	00 uni	il 15.0	DMI	E ORD					
Reach	4000 FT or abo	ve by	8.0 D	ME O	RD	169				
At 200	0 FT turn Auto a	and tra	ack dir	ectly to	ORD600	VC)R			
At 0.1	DME ORD600	turn	Auto a	and tra	ck directly	to OR	D241	VOR		
At 0.1	DME ORD241	turn	Auto a	and tra	ck directly	to OR	D591	VOR	-	_
At 0.1	DME ORD591	turn	Auto a	and tra	ck directly	to BA	E V	OR		_
Track t	o BAE and as	flight	olanne	ed						

11 to BAE

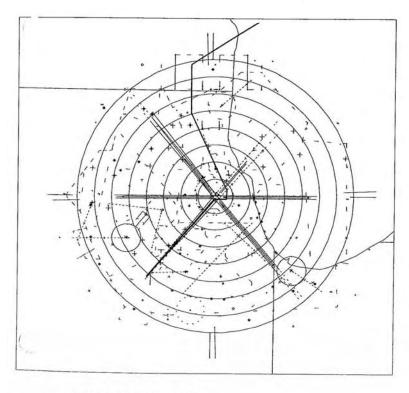


Project: KORD_EIS_EXP33

Printed by taam

Grou Disp	p: Jet ay:	: H	M⊠	L ☑ L	Tprop:	H H⊠	M≰ M	L Ø L	Piston:	A ⊠ A
Maintain runw	ay head	ding								
Do not climb a	bove 5	000 unt	il 8.0	DME	ORD					-
At 3000 FT tur	n Left	and tra	ack dir	ectly to	ORD600	VC)R			_
At 0.1 DME ()RD600	turn	Auto a	and tra	ck directly	to OR	D241	VOR		_
At 0.1 DME ()RD241	turn	Auto a	and tra	ck directly	to OR	D591	VOR		_
At 0.1 DME (RD591	turn	Auto a	and hea	ading 003					_
When crossing	240 ra	dial Pl	ETTY	VOR	turn Auto	and t	rack d	irectly to	PETTY	VOP
Track to PET	Y and	as flig	ht pla	nned						_
							1			_

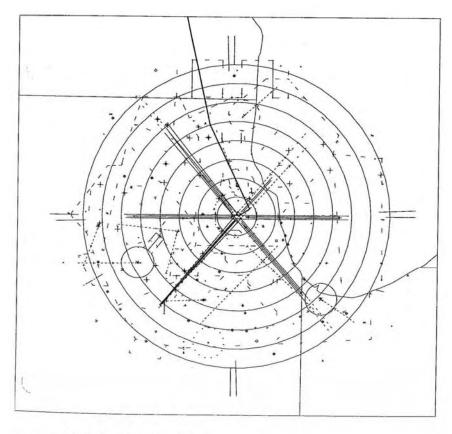




Project: KORD_EIS_EXP33

	Group: Jet: Display:		M⊄ M	L Ø L	Tprop:	H 🗆 H	M□ M	L a	Piston:	A 🗆
Maintain	runway headi	ng								
Do not cl	imb above 50	00 until	8.0	DME	ORD					
At 1600 F	T turn Left a	and trac	k dir	ectly to	ORD600	V	DR			
At 0.1 D	ME ORD600	turn A	uto a	and trac	ck directly	to OR	D591	VOR		
At 0.1 D	ME ORD591	turn A	uto a	and trac	ck directly	to BA	E V	OR		
Track to	BAE and as	flight pl	anne	ed						

DIR to BAE



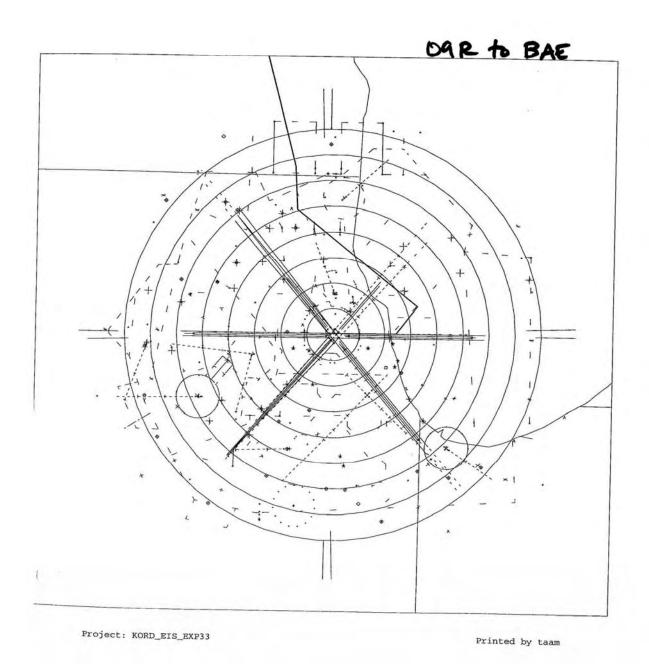
Project: KORD_EIS_EXP33

Group:	Jet:	Η□	M□	Lo	Tprop:	HØ	Mø	LØ	Piston:	AØ
Display:		Н	M	L		Н	例圖	L		Α
Maintain runway l	neadi	ng								
Do not climb abov	/e 11	000 ur	ntil 35.	.0 DN	AE ORD					
Do not climb abov	re 50	00 unt	il 20.0	DM	E WAUKI	C	-			
Reach 3000 FT or	abo	ve by	5.0 E	OME C	ORD					
Reach 4000 FT or	abo	ve by	8.0	OME O	ORD					
At 12.0 DME OR	D tur	n Aut	o and	headi	ng 040					
At 17.0 DME OR	D tur	n Aut	o and	track	directly to	ORD59	1 \	/OR		
At 0.1 DME ORD	591	turn	Auto a	and he	ading 360					
At 33.0 DME OR	D turi	n Aut	o and	track (directly to	BAE	VOR			
Track to BAE and	d as t	flight _I	olanne	ed						_

DAR TO BAE

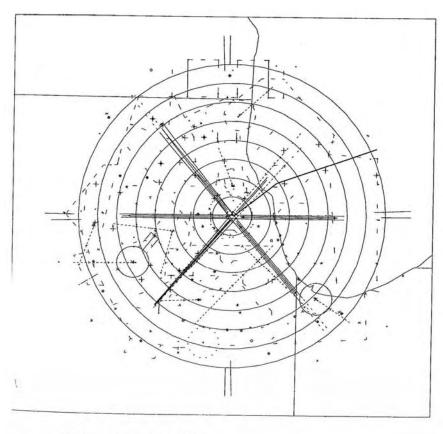
Project: KORD_EIS_EXP33

Continue page 2



Group: Je Display:	t: H≰ H	-	L ⊠ L	Tprop:	H 🗆 H	M□ M	L o	Piston:	A 🗆
Maintain runway hea	ding								
Do not climb above	5000 unt	til 10.0	DMI	E ORD	-				
At 1600 FT turn Left	headir	ng 0 55			_				-
When crossing 090 r	adial P	wk v	OR tu	rn Auto a	and trac	ck dire	ctly to O	RDEA \	/OR
At 0.1 DME ORDEA	turn A	uto ar	nd track	k directly t	to ORD	EA	VOR		
Track to ORDEA and	d as flig	ht plai	nned			112	+	-	

OAR to ORDEA



Project: KORD_EIS_EXP33

Printed by taam

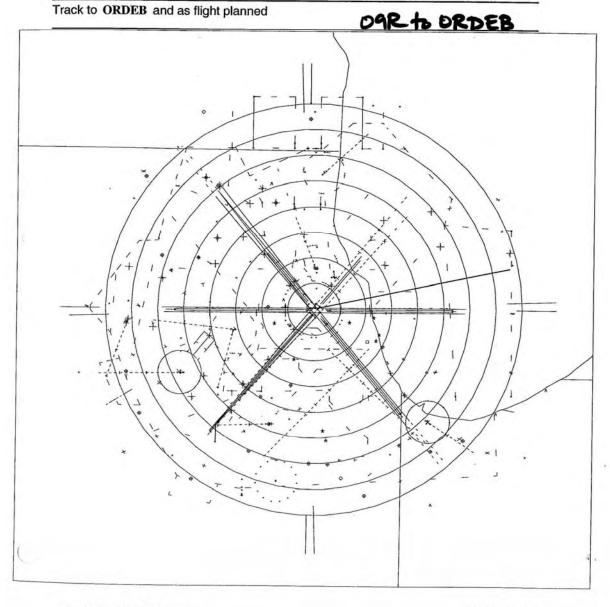
Group: Jet: Hø Mø Lø Tprop: Ho Mo Lo Piston: Ao Display: H Mo L H M L A

Maintain runway heading

Do not climb above 5000 until 10.0 DME ORD

At 1600 FT turn Auto and track directly to ORDEB VOR

At 0.1 DME ORDEB turn Auto and track directly to ORDEB VOR



Project: KORD_EIS_EXP33

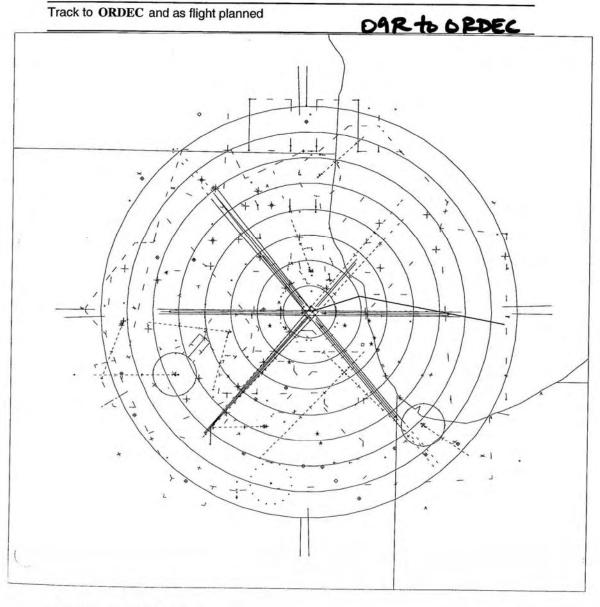
Group: Jet: Hø Mø Lø Tprop: Ho Mo Lo Piston: Ao Display: H M L H M L A

Maintain runway heading

Do not climb above 5000 until 6.0 DME ORD

At 1600 FT turn Left heading 075

At 10.0 DME ORD turn Auto and track directly to ORDEC VOR



Project: KORD_EIS_EXP33

	Group:	Jet:	HØ	$M \bowtie$	LØ	Tprop:	Ho	M	Lo	Piston:	A
	Display:			-			Н	М			Α
Maintain	runway l	neadi	ng				•				
Do not c	limb abov	e 50	00 unt	il 7.0	DME	ORD					
Do not c	limb abov	e 15	000 un	til cro	ssed 3	60 radial	DPA	VOR		-	
Reach 9	000 FT o	abo	ve by	15.0	DME (ORD					
Reach 1	2000 FT c	or abo	ove by	25.0	DME	ORD					
At 1600	FT turn L	eft a	and tra	ck dir	ectly to	ORD601	VC	OR			
At 0.1 D	ME ORI	601	turn	Auto a	and tra	ck directly	to OR	D589	VOR		
At 0.1 D	ME ORI	589	turn	Auto a	and tra	ck directly	to OR	D590	VOR		_
At 0.1 D	ME ORD	590	turn	Auto a	and tra	ck directly	to OR	DWA2	VOR		-
Track to	ORDWA	2 and	d as fli	ght pl	anned						_

69R to DRDWA2

Project: KORD_EIS_EXP33

Continue page 2

OPR to DRDWAZ

Project: KORD_EIS_EXP33

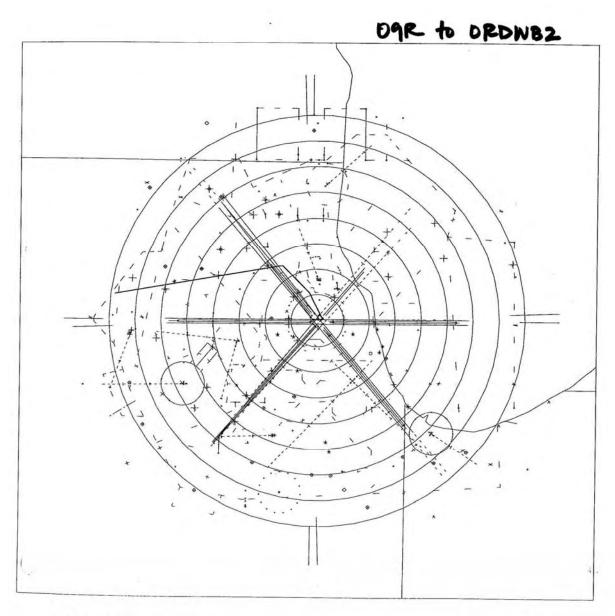
Printed by taam

	Group: Display:					Tprop:	H 🗆 H			Piston:	A \square
Maintain	runway h	eadi	ng								
Do not c	limb abov	e 50	00 unt	il 7.0	DME	ORD		-			
Do not c	limb abov	e 15	000 un	til cro	ssed 3	360 radial	DPA	VOR	-		
Reach 9	000 FT or	abo	ve by	15.0	DME (ORD					
Reach 1	2000 FT o	r abo	ve by	25.0	DME	ORD					
At 1600	FT turn L	eft a	nd tra	ck dir	ectly to	ORD601	VC	OR	-		
At 0.1 D	ME ORD	601	turn A	Auto a	and tra	ck directly	to OR	D589	VOR		_
At 0.1 D	ME ORD	589	turn A	Auto a	nd he	ading 270					-
At 11500	FT turn A	uto	and tr	ack di	rectly	to ORDW	B2 V	OR			
Track to	ORDWB2	and	as fli	ght pla	anned						

09 R to OPDWB2

Project: KORD_EIS_EXP33

Continue page 2

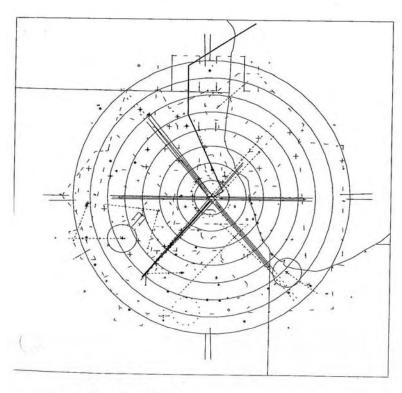


Project: KORD_EIS_EXP33

Printed by taam

Group: Jet: Display:	HØ MØ		Tprop:	H□ H	M□ M	L o	Piston:	A 🗆
Maintain runway head	ing							
Do not climb above 50	000 until 8.0	DME (ORD					_
At 1600 FT turn Left	and track di	rectly to	ORD600	VC	DR			_
At 0.1 DME ORD600	turn Auto	and track	directly	to OR	D241	VOR		_
At 0.1 DME ORD241	turn Auto	and track	directly	to OR	D591	VOR		-
At 0.1 DME ORD591	turn Auto	and head	ding 003					
When crossing 240 rad	dial PETTY	VOR to	urn Auto	and t	rack d	irectly to P	ETTY	VOR
Track to PETTY and	as flight pla	nned	-					-

OPR to PETY

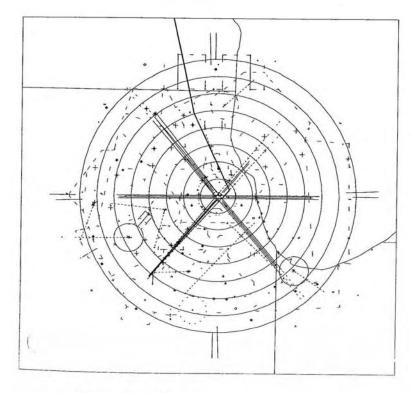


Project: KORD_EIS_EXP33

Printed by taam

	Group: Jet: Display:	H ⊠	-	L ₪	Tprop:	H⊠ H		L ⊠ L	Piston:	A ⊠ A
Mainta	in runway head	ing								
Do no	climb above 50	000 unt	til 10.0	DMI	E ORD					
Reach	4000 FT or abo	ve by	8.0 E	ME O	RD					_
At 200	0 FT turn Auto	and tra	ack dir	ectly to	ORD600	VC	OR		3	
At 0.1	DME ORD600	turn	Auto a	and tra	ck directly	to OR	D241	VOR		
At 0.1	DME ORD241	turn	Auto a	and tra	ck directly	to OR	D591	VOR		
At 0.1	DME ORD591	turn	Auto a	and tra	ck directly	to BA	E V	OR		
Track	to BAE and as	flight	planne	d						

low to BAE

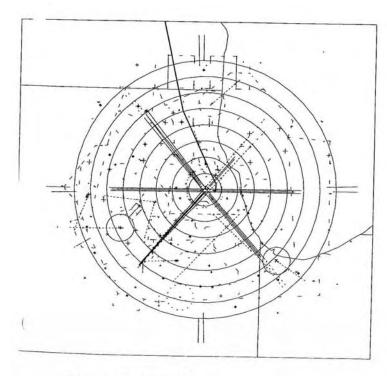


Project: KORD_EIS_EXP33

Printed by taam

	Group: Jet: Display:	H ⊌	-	L ⊠	Tprop:	H ≰		L ⊠	Piston:	A ⊠ A
Maintain	runway head	ling								
Do not cl	imb above 50	000 unt	il 15.0	DMI	E ORD		1.	-		
Do not cl	imb above 13	3000 un	til 35.0	0 DM	1E ORD					-
Reach 40	000 FT or abo	ve by	8.0 D	ME O	RD					
At 3000 F	T turn Auto	and tra	ck dire	ectly to	ORD600	VC)R			_
At 0.1 D	ME ORD600	turn A	Auto a	nd tra	ck directly	to OR	D241	VOR		
At 0.1 DI	ME ORD241	turn A	Auto a	nd trac	ck directly	to OR	D591	VOR		
At 0.1 DI	ME ORD591	turn A	Auto a	nd trac	ck directly	to BAI	E VO	OR		-
Track to 1	BAE and as	flight p	lanne	d						_

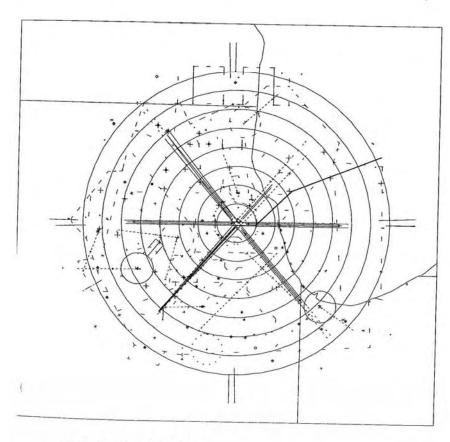
lot to BAE



Project: KORD_EIS_EXP33

	Group: Jet: Display:	H ⊠	M⊄ M	L ⊠ L	Tprop:	H o H	M□ M	L a L	Piston:	A 🗆
Mainta	in runway headi	ng								
Do not	climb above 50	00 unt	il 10.0	DME	E ORD	-				-
At 5.0	DME ORD turn	Auto	and t	rack di	rectly to (ORD36:	5 V	OR		-
At 0.1	DME ORD365	turn	Auto a	and trac	ck directly	to OR	DEA	VOR		_
At 0.1	DME ORDEA t	urn A	uto an	nd track	directly to	ORD	EA	VOR		
Track t	o ORDEA and	as flig	ht plar	nned						_

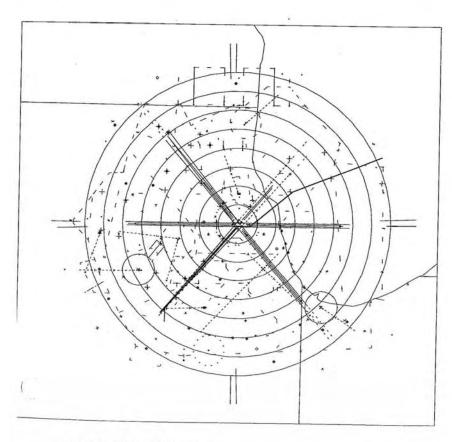
IDL to DROEA



Project: KORD_EIS_EXP33

Group: Jet: Display:	H⊠	-	LØ	Tprop:	Ho	M	1 -	Distant	
	11	ME	L		Н	М	L	Piston:	A
runway head	ling								
mb above 50	000 unt	il 10.0	DME	ORD					-
T turn Auto	and tra	ack dir	ectly to	ORD365	VC)R			
ME ORD365	turn	Auto a	and trad	ck directly	to OR	DEA	VOR		
ME ORDEA	turn A	uto ar	d track	directly to	ORD	EA	VOR		
ORDEA and	as flig	ht plai	nned						
	T turn Auto ME ORD365 ME ORDEA	T turn Auto and tra ME ORD365 turn ME ORDEA turn A	mb above 5000 until 10.0 T turn Auto and track dir ME ORD365 turn Auto a	mb above 5000 until 10.0 DME T turn Auto and track directly to ME ORD365 turn Auto and trace	T turn Auto and track directly to ORD365 ME ORD365 turn Auto and track directly ME ORDEA turn Auto and track directly to	mb above 5000 until 10.0 DME ORD T turn Auto and track directly to ORD365 VC ME ORD365 turn Auto and track directly to ORD ME ORDEA turn Auto and track directly to ORD	T turn Auto and track directly to ORD365 VOR ME ORD365 turn Auto and track directly to ORDEA ME ORDEA turn Auto and track directly to ORDEA	T turn Auto and track directly to ORD365 VOR ME ORD365 turn Auto and track directly to ORDEA VOR ME ORDEA turn Auto and track directly to ORDEA VOR	T turn Auto and track directly to ORD365 VOR ME ORD365 turn Auto and track directly to ORDEA VOR ME ORDEA turn Auto and track directly to ORDEA VOR

low to ordea



Project: KORD_EIS_EXP33

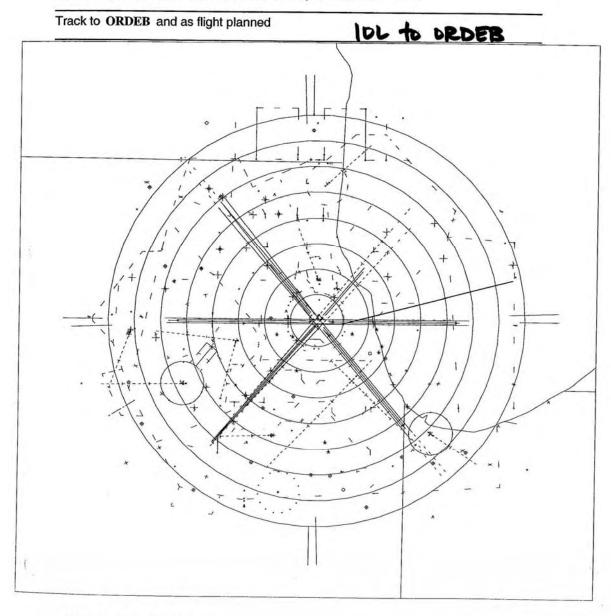
Group: Jet: Hø Mø Lø Tprop: Ho Mo Lo Piston: Ao Display: Ho Mo Lo Ho Mo Lo A

Maintain runway heading

Do not climb above 5000 until 6.0 DME ORD

Reach 3000 FT or above by 5.0 DME ORD

At 5.0 DME ORD turn Auto and track directly to ORDEB VOR



Project: KORD_EIS_EXP33

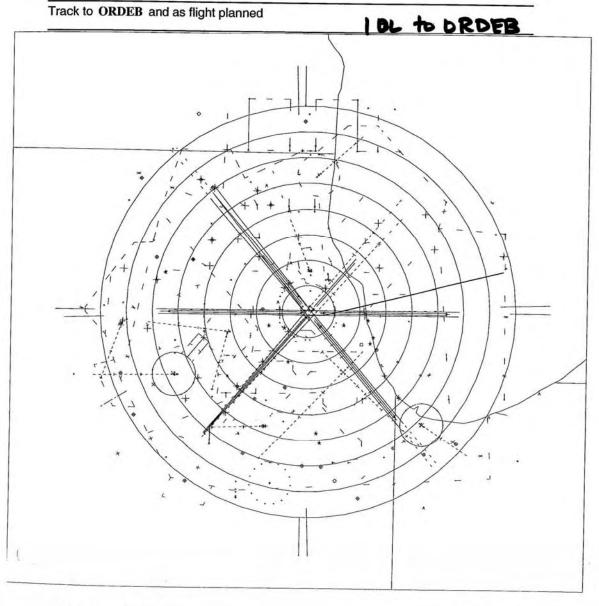
Group: Jet: He Me Le Tprop: He Me Le Piston: A Display: He Me Le He Me Le He Me Le A

Maintain runway heading

Do not climb above 5000 until 6.0 DME ORD

Reach 3000 FT or above by 5.0 DME ORD

At 3000 FT turn Auto and track directly to ORDEB VOR



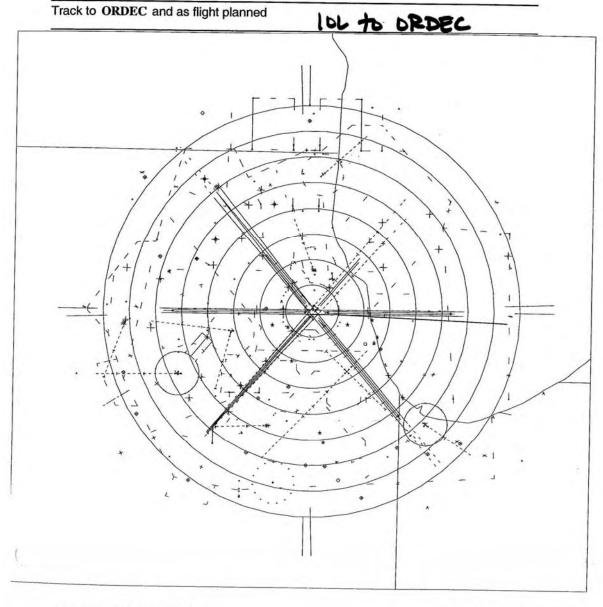
Project: KORD_EIS_EXP33

Maintain runway heading

Do not climb above 5000 until 6.0 DME ORD

Reach 3000 FT or above by 5.0 DME ORD

At 5.0 DME ORD turn Auto and track directly to ORDEC VOR



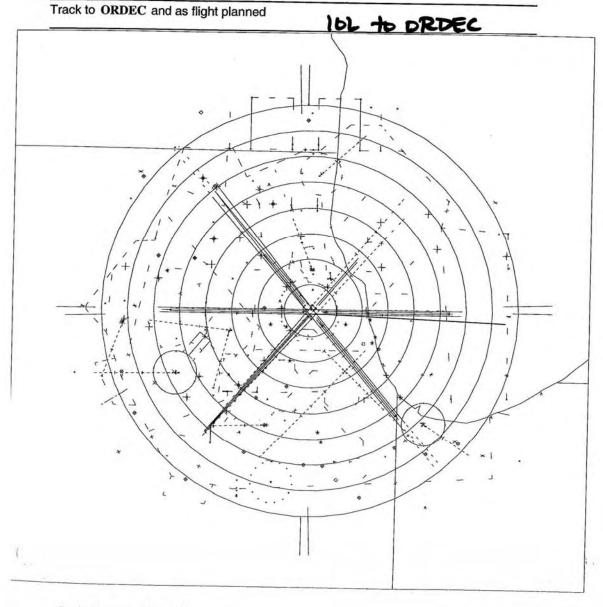
Project: KORD_EIS_EXP33

Maintain runway heading

Do not climb above 5000 until 6.0 DME ORD

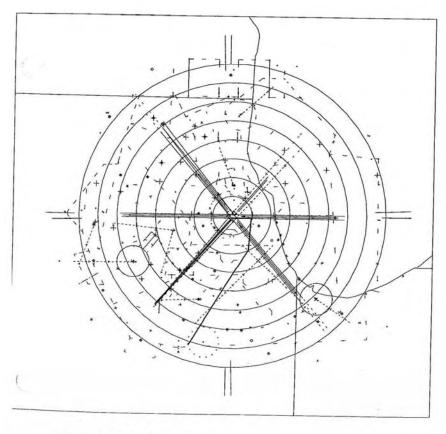
Reach 3000 FT or above by 5.0 DME ORD

At 3000 FT turn Auto and track directly to ORDEB VOR



Project: KORD_EIS_EXP33

		et: H≰ H	Mø	L ☑ L	Tprop:	H 🗆 H	M□ M	L o	Piston:	A 🗆
Maintain runway heading		Display: H M L A								
Do not climb	above	5000 un	til 8.0	DME	ORD					-
Reach 4000 F	T or a	bove by	8.0	ME O	RD				-	
At 5.0 DME	ORD to	ırn Auto	and t	rack di	rectly to (ORD59	7 V	OR		
At 0.1 DME	ORD59	7 turn	Auto a	and tra	ck directly	to OR	DSA	VOR		
Track to ORD	SA ar	nd as flig	ht pla	nned		IDL	+	DR.	DSA	

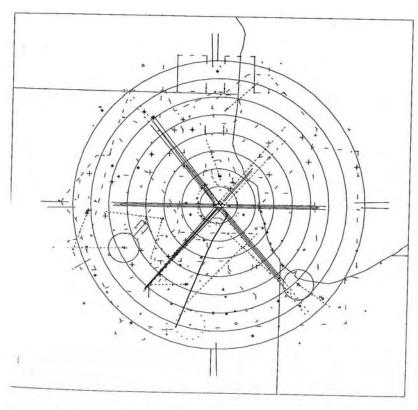


Project: KORD_EIS_EXP33

Printed by taam

Group: Jet: H♂ M♂ L♂ Tprop: H□ Mo Lo Piston: A Display: H H L A Maintain runway heading Do not climb above 5000 until 7.0 DME ORD Reach 4000 FT or above by 8.0 DME ORD At 1200 FT turn Auto heading 130 At 4.0 DME ORD turn Auto and track directly to ORD596 VOR At 0.1 DME ORD596 turn Auto and track directly to ORDSA VOR Track to ORDSA and as flight planned

lol to DRDSA



Project: KORD_EIS_EXP33

Group: Jet: Hø Mø Lø Tprop: Ho Mo Lo Piston: Ao Display: Ho Mø Lo Ho Mo Lo A

Maintain runway heading

Do not climb above 5000 until 8.0 DME ORD

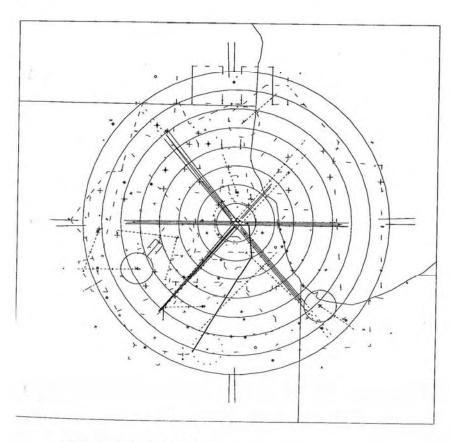
Reach 4000 FT or above by 8.0 DME ORD

At 3000 FT turn Auto and track directly to ORD597 VOR

At 0.1 DME ORD597 turn Auto and track directly to ORDSA VOR

Track to ORDSA and as flight planned

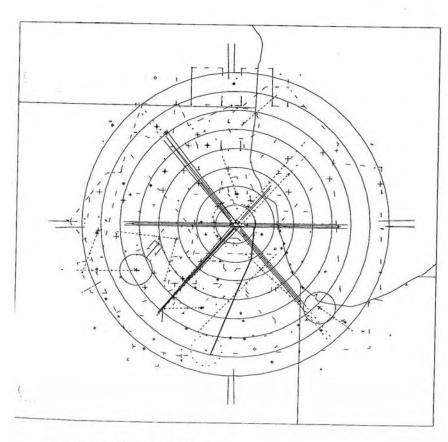
OL to DROSA



Project: KORD_EIS_EXP33

Group: Jet: H M Lゼ Tprop: H□ Mo Lo Piston: A Display: H L A Maintain runway heading Do not climb above 5000 until 8.0 DME ORD Reach 4000 FT or above by 8.0 DME ORD At 5.0 DME ORD turn Auto and track directly to ORD597 VOR At 0.1 DME ORD597 turn Auto and track directly to ORDSB VOR Track to ORDSB and as flight planned

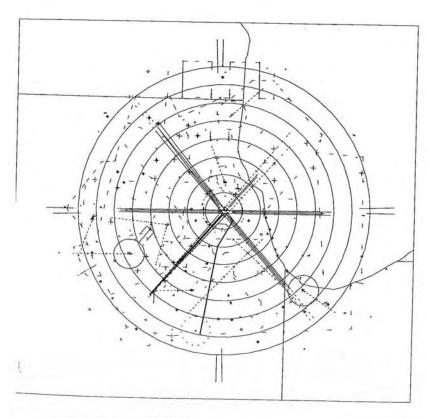
low to ordsb



Project: KORD_EIS_EXP33

Group: Jet: Hø Mø Lø Tprop: H□ Piston: A Display: H L A Maintain runway heading Do not climb above 5000 until 7.0 DME ORD Reach 4000 FT or above by 8.0 DME ORD At 1200 FT turn Auto heading 130 At 4.0 DME ORD turn Auto and track directly to ORD596 VOR At 0.1 DME ORD596 turn Auto and track directly to ORDSB VOR Track to ORDSB and as flight planned

low to ords B

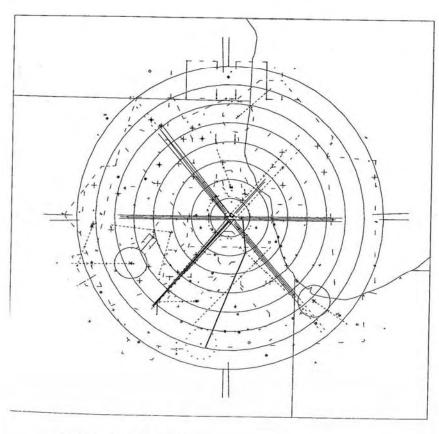


Project: KORD_EIS_EXP33

Printed by taam

Group: Jet: Display:	HØ Me		Tprop:	H 🗆	M□ M	L 🗆 L	Piston:	A 🗆				
Maintain runway heading Do not climb above 5000 until 8.0 DME ORD												
Do not climb above 50	000 until 8.0	DME	ORD									
Reach 4000 FT or abo	ove by 8.0	DME O	RD									
At 3000 FT turn Auto	and track d	irectly to	ORD597	VC	DR			-				
At 0.1 DME ORD597	turn Auto	and tra	ck directly	to OR	DSB	VOR						
Track to ORDSB and	as flight pl	anned										

low to ords 8

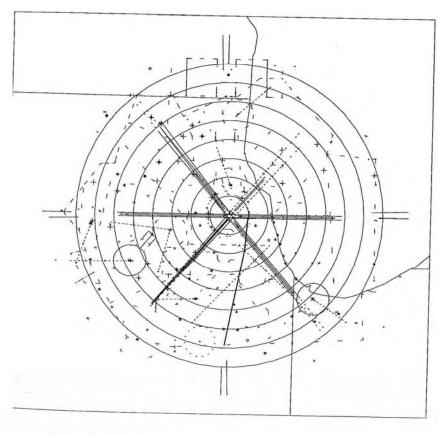


Project: KORD_EIS_EXP33

Group: Jet: Hø Mø Lø Tprop: H

✓ ME LE Piston: A & Display: H H M Maintain runway heading Do not climb above 5000 until 8.0 DME ORD Reach 4000 FT or above by 8.0 DME ORD At 5.0 DME ORD turn Auto and track directly to ORD597 VOR At 0.1 DME ORD597 turn Auto and track directly to ORDSC VOR Track to ORDSC and as flight planned

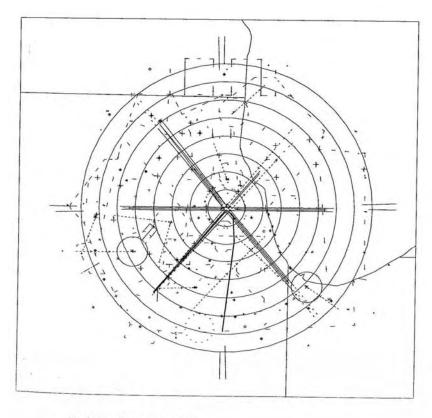
low to ordsc



Project: KORD_EIS_EXP33

Group: Jet: Hø Mø Lø Tprop: H□ Mo Lo Piston: A Display: H H L A Maintain runway heading Do not climb above 5000 until 7.0 DME ORD Reach 4000 FT or above by 8.0 DME ORD At 1200 FT turn Auto and track directly to ORD593 VOR At 0.1 DME ORD593 turn Auto and heading 180 At 10.0 DME ORD turn Auto and track directly to ORDSC VOR Track to ORDSC and as flight planned

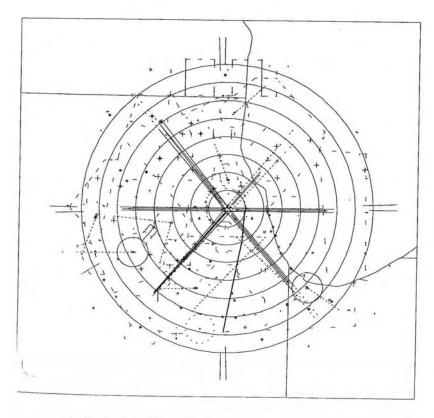
low to oppose



Project: KORD_EIS_EXP33

	Group: Jet: Display:	Н	M	L	Tprop:	H	M□ M	L	Piston:	A \square		
Maintain runway heading												
Do not c	limb above 40	00 unt	il 10.0	DM	E ORD					_		
Do not c	limb above 11	000 ur	ntil 35.	0 DN	ME ORD			_		-		
Reach 4	1000 FT or abo	ve by	8.0 D	ME C	ORD	-				-		
At 5.0 D	ME ORD turn	Auto	and t	rack d	irectly to (ORD59	7 V	OR		-		
At 0.1 D	ME ORD597	turn .	Auto a	and tra	ck directly	to OR	DSC	VOR		-		
Track to	ORDSC and	as flig	ht plar	nned						_		

low to prosc

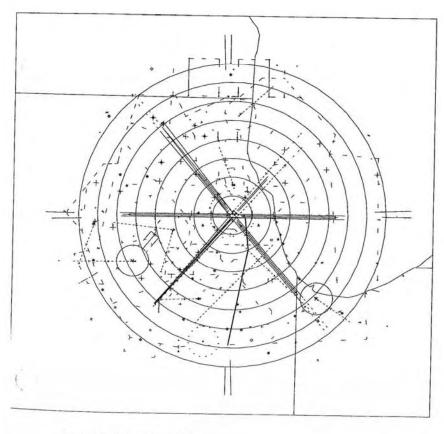


Project: KORD_EIS_EXP33

Group: Jet: HØ MØ LØ Tprop: H

✓ MØ LØ Piston: A 🗹 Display: H H A Maintain runway heading Do not climb above 5000 until 8.0 DME ORD Reach 4000 FT or above by 8.0 DME ORD At 3000 FT turn Auto and track directly to ORD597 VOR At 0.1 DME ORD597 turn Auto and track directly to ORDSC VOR Track to ORDSC and as flight planned

low to ordsc

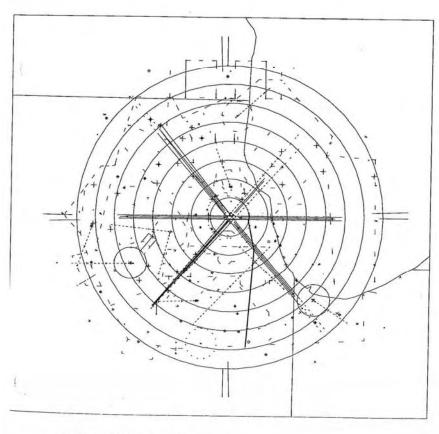


Project: KORD_EIS_EXP33

Printed by taam

	Group: Je Display:	et: H⊠ H	M⊠ Ma	L ⊠	Tprop:	H 🗆 H	M□ M	L o	Piston:	A 🗆
Maintair	runway hea	ading								
Do not o	climb above	5000 unt	il 10.0	DME	ORD					
Reach	4000 FT or al	bove by	8.0 E	ME O	RD					
At 5.0 [OME ORD to	urn Auto	and t	rack di	rectly to I	KITTS	VC)R		_
At 0.1	OME KITTS	turn A	uto ar	nd track	directly t	o ORI	SD	VOR		
Track to	ORDSD ar	nd as flig	ht plai	nned						1

low to ordso

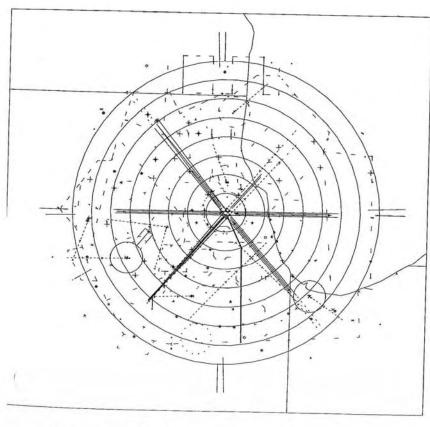


Project: KORD_EIS_EXP33

Printed by taam

Group: Jet: Hø Mø Lø Tprop: H□ Piston: A Mo Lo Display: H L A Maintain runway heading Do not climb above 5000 until 7.0 DME ORD Reach 4000 FT or above by 8.0 DME ORD At 1200 FT turn Auto and track directly to ORD597 VOR At 0.1 DME ORD597 turn Auto and track directly to ORDSD VOR Track to ORDSD and as flight planned

IDL to DRDSD

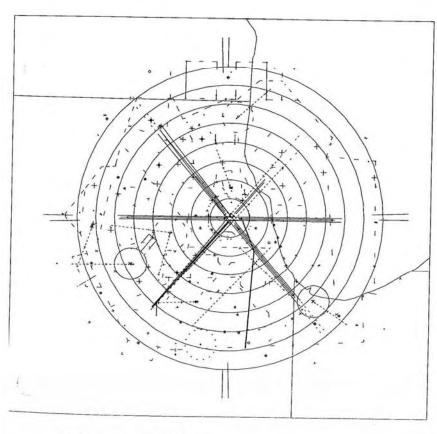


Project: KORD_EIS_EXP33

Printed by taam

	Group: Jet Display:		Me	L ⊠	Tprop:	H 🗆 H	M□ M	L o	Piston:	A 🗆
Maintair	Display: H M I									
Do not o	climb above 5	000 unt	til 10.0	DME	E ORD			-		
Reach 4	4000 FT or abo	ove by	8.0	ME O	RD		_			_
At 3000	FT turn Auto	and tra	ack dir	ectly to	KITTS	VOI	R			_
At 0.1	OME KITTS	turn A	uto ar	nd track	directly to	o ORD	SD	VOR		_
Trook to	ORDSD and	on file	La La					_		

IOL to ORDSD

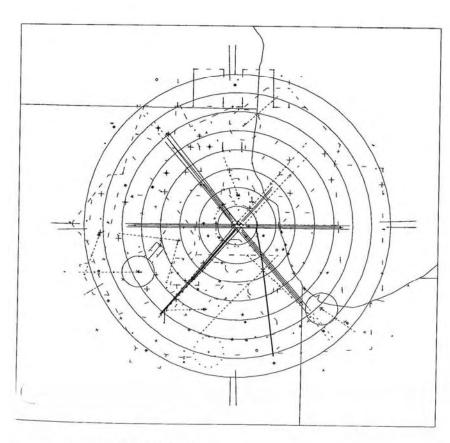


Project: KORD_EIS_EXP33

Printed by taam

	Group: Jet Display:	: H	M⊠ Ma	L Ø	Tprop:	H o H	M□ M	L o L	Piston:	A \square
Maintai	n runway head	ding								
Do not	climb above 5	000 uni	il 10.0	DME	E ORD				-	
Reach	4000 FT or ab	ove by	8.0 E	OME O	RD		-	-	*	_
At 5.0	OME ORD tur	n Auto	and t	rack di	rectly to 1	KITTS	VC)R	-	
At 0.1	OME KITTS	turn A	uto ar	nd track	k directly t	o ORI	SE	VOR		
Track to	ORDSE and	as flig	ht pla	nned			_			

IOL to ORDSE



Project: KORD_EIS_EXP33

Group: Jet: He Me Le Tprop: He Me Le Piston: A Display: He Me Le He Me Le He Me Le A

Maintain runway heading

Do not climb above 5000 until 7.0 DME ORD

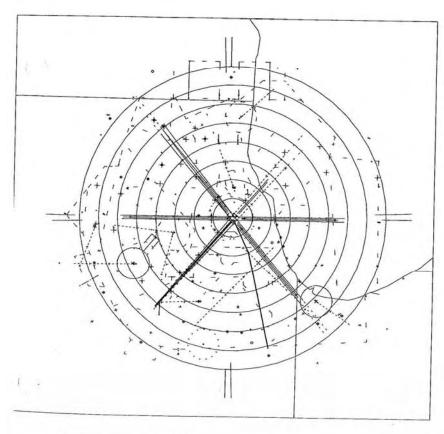
Reach 4000 FT or above by 8.0 DME ORD

At 1200 FT turn Auto and track directly to ORD597 VOR

At 0.1 DME ORD597 turn Auto and track directly to ORDSE VOR

Track to ORDSE and as flight planned

LOL tO DROSE

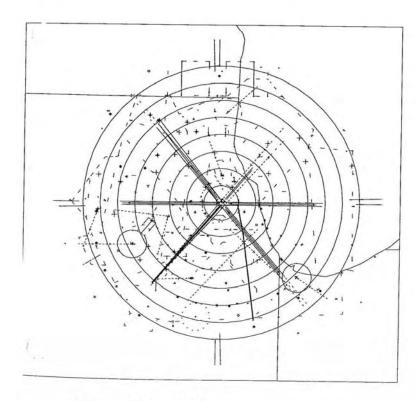


Project: KORD_EIS_EXP33

Printed by taam

Group: Jet: Display:	H M		Tprop:	H ⊠	Reserve	L ⊠	Piston:	A ⊠ A
Maintain runway head	ing							
Do not climb above 40	00 until 10.	0 DME	E ORD					-
Do not climb above 50	00 until 20.	0 DME	ORD				7. 3	
Do not climb above 11	000 until 35	.0 DM	E ORD					
Reach 4000 FT or abo	ve by 8.0	DME O	RD					
At 5.0 DME ORD turn	Auto and	track di	rectly to I	KITTS	VC	R		
At 0.1 DME KITTS t	urn Auto a	nd track	directly t	o ORD	SE	VOR		
Track to ORDSE and	as flight pla	anned						-

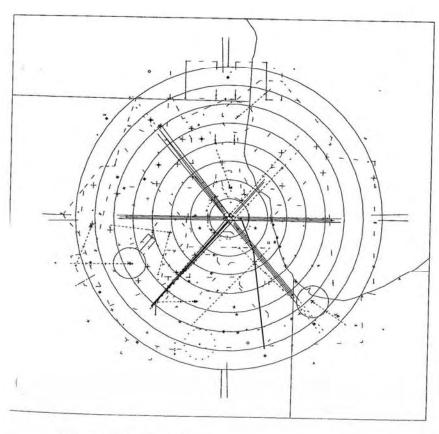
IDL to DROSE



Project: KORD_EIS_EXP33

	Group: J Display:	et: H ☑ H	M≰	L ⊠	Tprop:	H _□	M□ M	L o L	Piston:	A 🗆
Maintai	n runway he	ading								
Do not	climb above	5000 un	til 10.0	DME	ORD	-				
Reach	4000 FT or a	bove by	8.0 E	ME O	RD		-			-
At 3000	FT turn Au	to and tra	ack dir	ectly to	KITTS	VOI	R			
At 0.1	DME KITTS	turn A	uto ar	d track	directly to	o ORD	SE	VOR		_
Track to	ORDSE a	nd as flig	ht plan	nned						-

IDL to DROSE



Project: KORD_EIS_EXP33

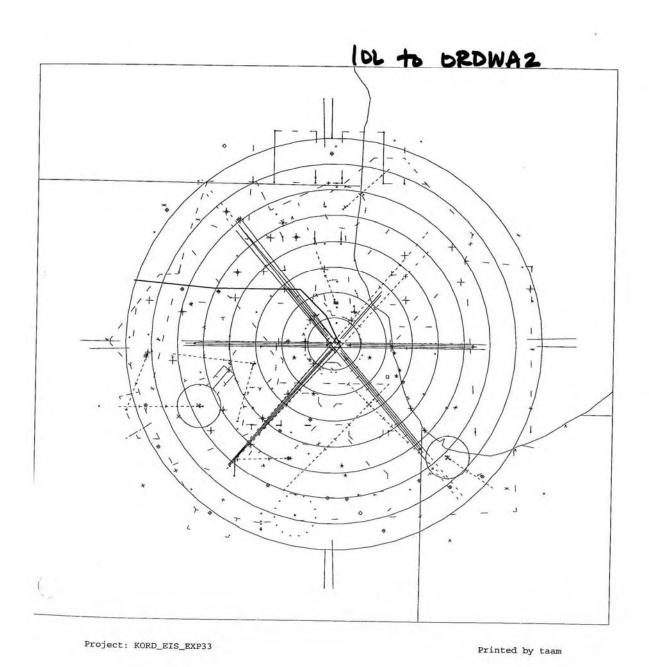
Printed by taam

	Group: Jet Display:				Tprop:	H ⊠	M≰ M	L ⊠ L	Piston:	A ⋈ A
Mainta	in runway head	ding								
Do not	climb above 5	000 unt	il 7.0	DME	ORD					
Do not	climb above 1	5000 un	til cro	ssed 3	60 radial	DPA	VOR			
Reach	9000 FT or ab	ove by	15.0	DME (ORD					
Reach	12000 FT or ab	ove by	25.0	DME	ORD		-			_
At 180	FT turn Left	and tra	ck dir	ectly to	ORD601	VC	R			-
At 0.1	DME ORD601	turn 2	Auto a	and trac	ck directly	to OR	D589	VOR		_
At 0.1	DME ORD589	turn 2	Auto a	nd trac	ck directly	to OR	D590	VOR		
At 0.1	DME ORD590	turn A	Auto a	nd trac	ck directly	to OR	DWA2	VOR		
Track to	ORDWA2 an	d as fli	ght pla	anned						-

IDL to DRD WAZ

Project: KORD_EIS_EXP33

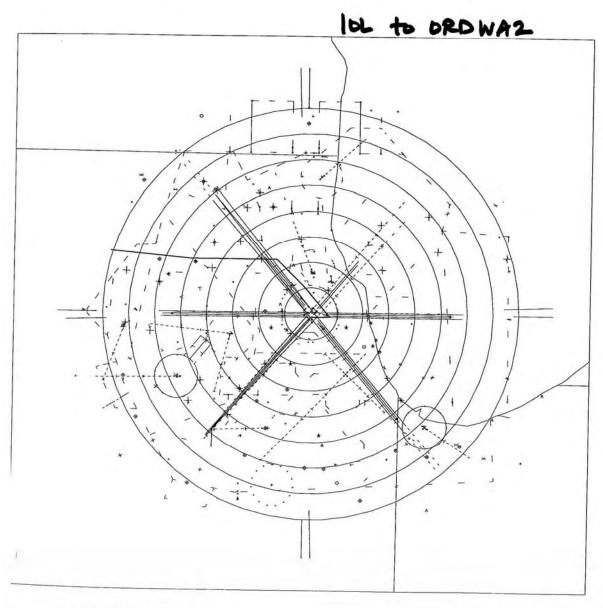
Continue page 2



Appendix D D-208 July 2005

	Group: Jet Display:				Tprop:	H ⊠	M⊠ M		Piston:	A ⊠ A
Mainta	in runway head	ding								
Do not	climb above 5	000 unt	il 7.0	DME	ORD				_	
Do not	climb above 1	5000 ur	til cro	ssed 3	360 radial	DPA	VOR			
Reach	9000 FT or abo	ove by	15.0	DME (ORD					
Reach	12000 FT or ab	ove by	25.0	DME	ORD					
At 3000	FT turn Left	and tra	ck dir	ectly to	ORD601	VC	OR .			
At 0.1	DME ORD601	turn .	Auto a	and tra	ck directly	to OR	D589	VOR		
At 0.1	DME ORD589	turn	Auto a	and tra	ck directly	to OR	D590	VOR		_
At 0.1	DME ORD590	turn	Auto a	and tra	ck directly	to OR	DWA2	VOR	-	
Track to	ORDWA2 an	d as fli	ght pl	anned	-					_

lol to DRDWA2

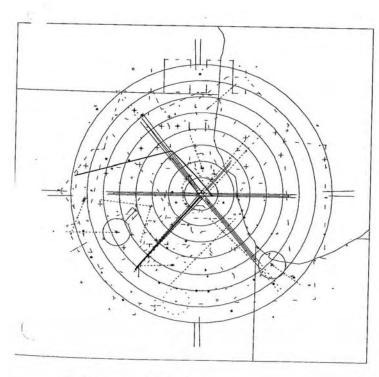


Project: KORD_EIS_EXP33

Printed by taam

Group: Jet: Hø Mø Lø Tprop: H□ Mo Lo Piston: A Display: H H A Maintain runway heading Do not climb above 5000 until 7.0 DME ORD Do not climb above 15000 until crossed 360 radial DPA VOR Reach 9000 FT or above by 15.0 DME ORD Reach 12000 FT or above by 25.0 DME ORD At 3000 FT turn Left and track directly to ORD601 VOR At 0.1 DME ORD601 turn Auto and track directly to ORD589 VOR At 13000 FT turn Auto and track directly to ORDWB2 VOR Track to ORDWB2 and as flight planned

low to ORD WB2



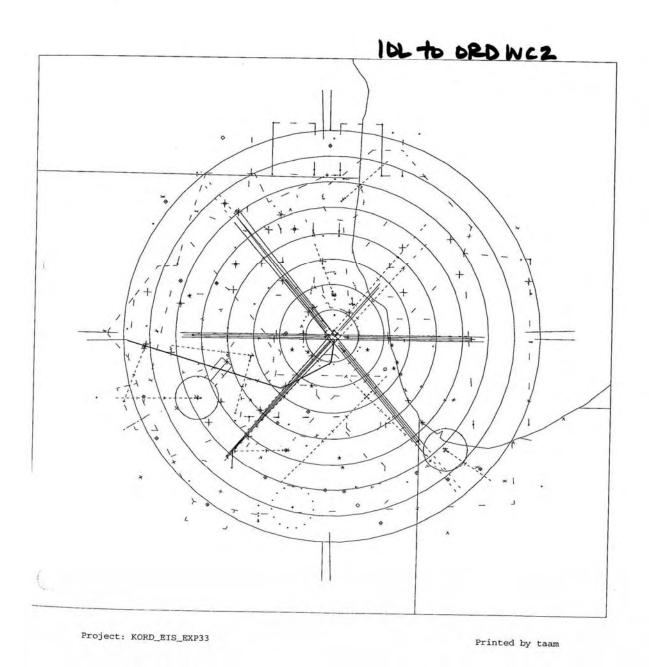
Project: KORD_EIS_EXP33

Grou	p: Jet	: H Ø	Mø	LØ	Tprop:	Ho	M	Lo	Piston:	Αп
	ay:					Н				Α
Maintain runw	ay head	ding								
Do not climb a	bove 5	000 unt	il 7.0	DME	ORD					
Do not climb a	bove 1	5000 ur	ntil cro	ssed 1	180 radial	DPA	VOR			-
Reach 3000 F	or abo	ove by	5.0 E	ME O	RD					
Reach 9000 F	or abo	ove by	15.0	DME (ORD					
Reach 13000 F	T or ab	ove by	25.0	DME	ORD					
At 1200 FT turn	Auto	and tra	ck dir	ectly to	ORD504	VC	R			
At 0.1 DME O	RD504	turn 2	Auto a	ind trad	ck directly	to ELI	YN	VOR		
At 0.1 DME E	LLYN	turn A	uto an	d head	ding 270					_
At 11000 FT tu	n Auto	and tr	ack di	rectly t	to ORDW	C2 V	OR			_
Track to ORD	VC2 an	d as fli	ght pla	anned						_

16L to DRDWC2

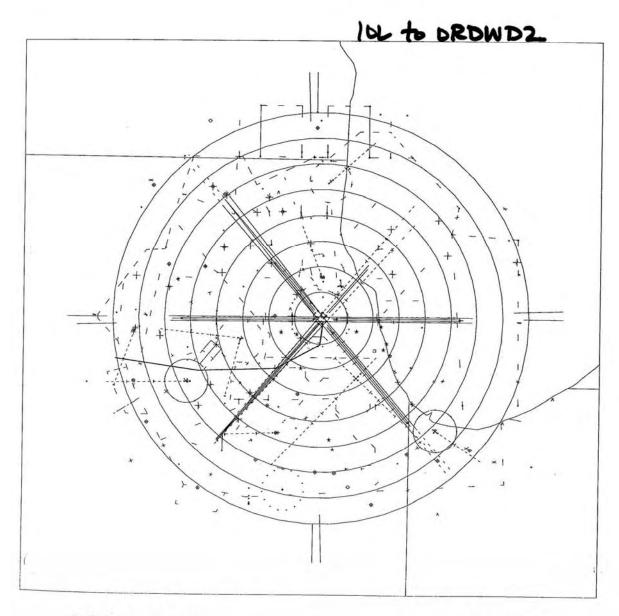
Project: KORD_EIS_EXP33

Continue page 2



	Group:	Jet:	HØ	$M \bowtie$	LØ	Tprop:	Ho	M	Lo	Piston:	A
	Display:		Н	Wil	L		Н	М	L		Α
Mainta	ain runway h	neadi	ng			21					
Do no	t climb abov	e 50	00 unt	il 7.0	DME	ORD					
Do no	t climb abov	e 15	000 ur	til cro	ssed 1	180 radial	DPA	VOR			
Reach	3000 FT or	abo	ve by	5.0 E	ME O	ORD					
Reach	9000 FT or	abov	ve by	15.0	DME (ORD					_
Reach	13000 FT o	r abo	ve by	25.0	DME	ORD					
At 120	00 FT turn A	uto a	nd tra	ck dir	ectly to	ORD504	VC	PR			
At 0.1	DME ORD	504	turn 2	Auto a	and tra	ck directly	to ELI	LYN	VOR		
At 0.1	DME ELL	YN to	ırn A	uto an	d track	k directly to	ORD	592	VOR		_
At 0.1	DME ORD	592	turn A	Auto a	nd trad	ck directly	to OR	DWD2	VOR		_
Track	to ORDWD	2 and	as fli	ght pla	anned						

LOL to OPDWD2



Project: KORD_EIS_EXP33

Printed by taam

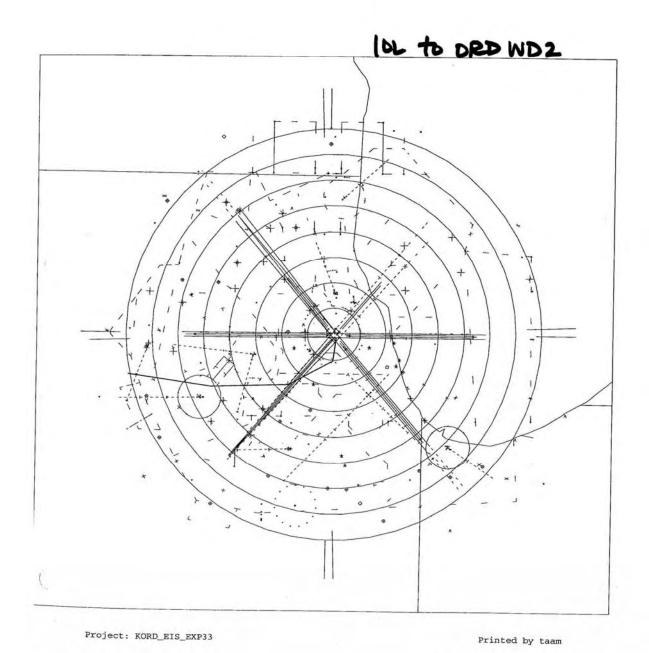
	Group: Jet:	HØ Ms	LØ	Tprop:	Ho	Mo	Lo	Piston:	Αп
			L		Н	М	L		Α
Mainta	ain runway head	ing					4.		
Do no	t climb above 50	000 until 7.) DME	ORD					-
Do no	t climb above 15	000 until c	rossed	180 radial	DPA	VOR			_
Reach	9000 FT or abo	ve by 15.0	DME	ORD	-		-		
Reach	13000 FT or abo	ove by 25.	0 DME	ORD					_
At 120	0 FT turn Auto a	and track o	lirectly to	ORD504	VC)R			
At 0.1	DME ORD504	turn Auto	and tra	ck directly	to ELI	LYN	VOR		
At 0.1	DME ELLYN t	urn Auto	and trac	k directly to	ORD	592	VOR		
At 0.1	DME ORD592	turn Auto	and tra	ck directly	to OR	DWD2	VOR		-
Track t	to ORDWD2 and	d as flight	olanned						_

Project: KORD_EIS_EXP33

Continue page 2

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lot to ORD WDZ

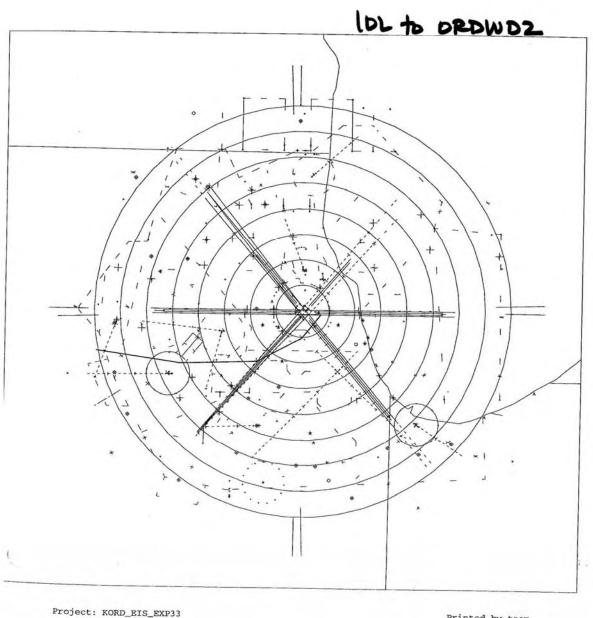


Group: Jet: Hơ Mơ Lơ Tprop: H□ M□ L□ Pistor Display: H MM L H M L	: A 🗆
Maintain runway heading	Α .
Do not climb above 5000 until 7.0 DME ORD	
Do not climb above 15000 until crossed 180 radial DPA VOR	
Reach 3000 FT or above by 5.0 DME ORD	-
Reach 9000 FT or above by 15.0 DME ORD	
Reach 13000 FT or above by 25.0 DME ORD	
At 3000 FT turn Auto and track directly to ORD504 VOR	-
At 0.1 DME ORD504 turn Auto and track directly to ELLYN VOR	-
At 0.1 DME ELLYN turn Auto and track directly to ORD592 VOR	_
At 0.1 DME ORD592 turn Auto and track directly to ORDWD2 VOR	_
Track to ORDWD2 and as flight planned	_

Project: KORD_EIS_EXP33 Continue page 2

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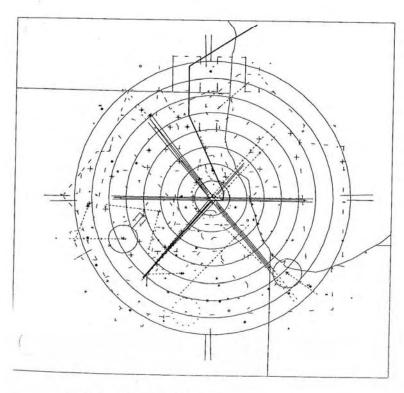
LOL to DRD WD2



Printed by taam

Group: Jet: Display:			L ₪ L	Tprop:	H ⊠	M≰ M	L ⊠ L	Piston:	A ⊠ A
Maintain runway head	ing								
Do not climb above 50	00 until	8.0	DME	ORD	-				_
At 3000 FT turn Left a	and trac	k dir	ectly to	ORD600	VC)R			_
At 0.1 DME ORD600	turn A	uto a	and trad	ck directly	to OR	D241	VOR		_
At 0.1 DME ORD241	turn A	uto a	and trad	ck directly	to OR	D591	VOR		
At 0.1 DME ORD591	turn A	uto a	and hea	ading 003					_
When crossing 240 rac	lial PE	ГТҮ	VOR	turn Auto	and t	rack di	rectly to	PETTY	VOR
Track to PETTY and	as fligh	t plar	ned						_
	-		_						

10L to PETTY

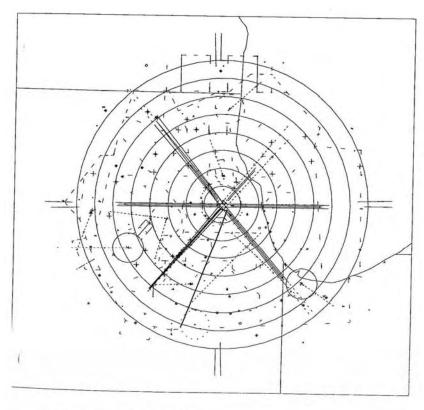


Project: KORD_EIS_EXP33

Printed by taam

	Group: Jet: Display:	H⊠ H	MØ	L ⊠ L	Tprop:	H = H	M□ M	L 🗆 L	Piston:	A 🗆
Maintai	n runway head	ing								
Do not	climb above 50	000 unt	il 7.0	DME	ORD					
Reach	4000 FT or abo	ve by	8.0 C	ME O	RD	_				
At 1200	FT turn Auto a	and tra	ick dir	ectly to	ORD593	VC	OR			
At 0.1	DME ORD593	turn .	Auto a	and trac	ck directly	to OR	D596	VOR	,	_
At 0.1	DME ORD596	turn	Auto a	ind trac	ck directly	to OR	DSA	VOR		_
Track to	ORDSA and	as flig	ht plar	nned						

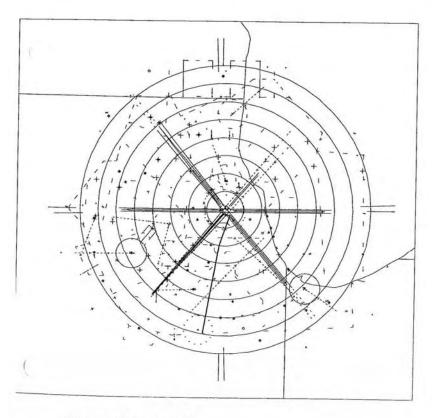
IDR to ORDSA



Project: KORD_EIS_EXP33

	Group: Jet: Display:	H ⊠	-	L ♂ L	Tprop:	H□ H	M□ M	Lo L	Piston:	A 🗆
Maintai	in runway head	ing								
Do not	climb above 50	000 unt	il 7.0	DME	ORD					-
Reach	4000 FT or abo	ve by	8.0	OME O	RD					-
At 1200	FT turn Auto	and tra	ack dir	ectly to	ORD593	VC	DR	-		
At 0.1	DME ORD593	turn .	Auto a	and tra	ck directly	to OR	D596	VOR		
At 0.1	DME ORD596	turn	Auto a	and tra	ck directly	to OR	DSB	VOR		
Track to	ORDSB and	as flig	ht plai	nned						

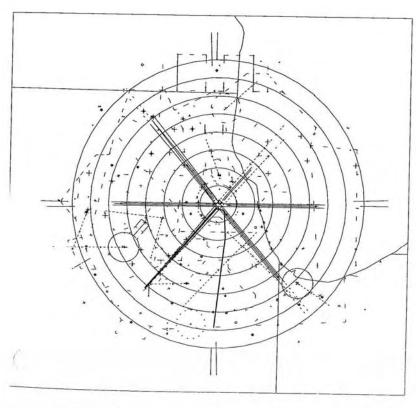
lor to ords B



Project: KORD_EIS_EXP33

Group: Jet: Hø Mø Lø Tprop: H□ M□ L□ Piston: A Display: H H M A Maintain runway heading Do not climb above 5000 until 7.0 DME ORD Reach 4000 FT or above by 8.0 DME ORD At 1200 FT turn Auto and track directly to ORD593 VOR At 0.1 DME ORD593 turn Auto and heading 180 At 10.0 DME ORD turn Auto and track directly to ORDSC **VOR** Track to ORDSC and as flight planned

IDR TOBROSC

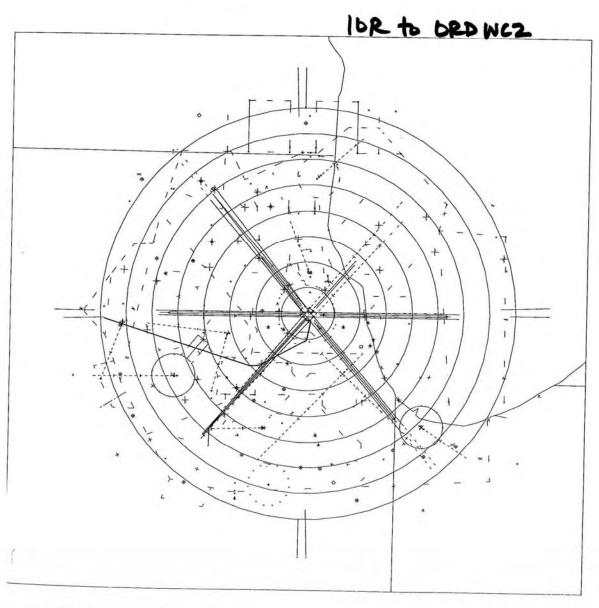


Project: KORD_EIS_EXP33

Printed by taam

	up: Jet lay:		-		Tprop:	H 🗆	M□ M	L o L	Piston:	A \square
Maintain runy	ay head	ding								
Do not climb	above 5	000 uni	il 7.0	DME	ORD		-			
Do not climb	bove 1	5000 ur	til cro	ssed 1	180 radial	DPA	VOR			_
Reach 3000 F	T or abo	ove by	5.0 D	ME O	RD					
Reach 9000 F	T or abo	ove by	15.0	DME (ORD					
Reach 13000	T or ab	ove by	25.0	DME	ORD	-				_
At 1200 FT tu	n Auto	and tra	ck dire	ectly to	ORD504	VC)R			-
At 0.1 DME)RD504	turn	Auto a	nd trad	ck directly	to ELI	LYN	VOR		_
At 0.1 DME J	LLYN	turn A	uto an	d head	ding 270					
At 11000 FT to	rn Auto	and tr	ack di	rectly t	o ORDW	C2 V	OR			
Track to ORD	WC2 an	d as fli	ght pla	anned						_

IDR to DRDWCZ



Project: KORD_EIS_EXP33

Printed by taam

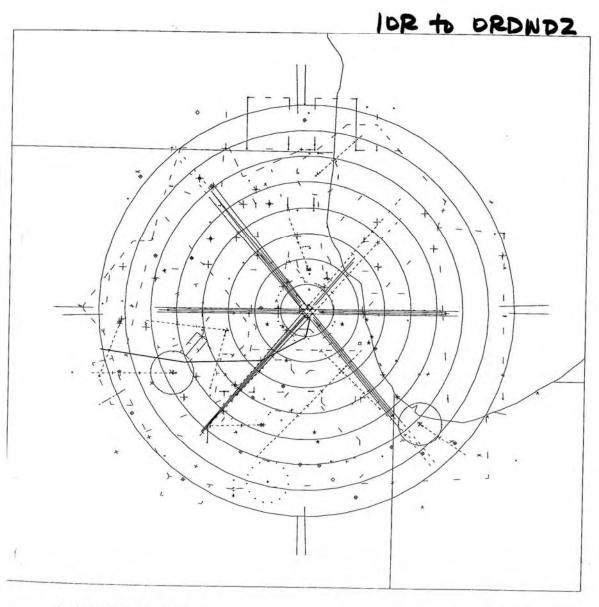
	Group: Jet: Display:				Tprop:	H 🗆 H	M□ M	L D L	Piston:	A 🗆
Maintain ru	unway head	ling								
Do not clin	nb above 50	000 unt	il 7.0	DME	ORD					
Do not clin	nb above 1	5000 ur	til cro	ssed 1	80 radial	DPA	VOR			-
Reach 900	0 FT or abo	ve by	15.0	DME (ORD					
Reach 130	00 FT or ab	ove by	25.0	DME	ORD					
At 1200 FT	turn Auto	and tra	ck dir	ectly to	ORD504	VC	PR			_
At 0.1 DM	E ORD504	turn 2	Auto a	ind trac	ck directly	to ELI	LYN	VOR		
At 0.1 DM	E ELLYN 1	urn A	uto an	d track	directly to	ORD	592	VOR		_
At 0.1 DM	E ORD592	turn A	luto a	nd trac	ck directly	to OR	DWD2	VOR		_
Track to O	RDWD2 and	d as fli	ght pla	anned						-

Project: KORD_EIS_EXP33

Continue page 2

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LOR to DRDWD2



Project: KORD_EIS_EXP33

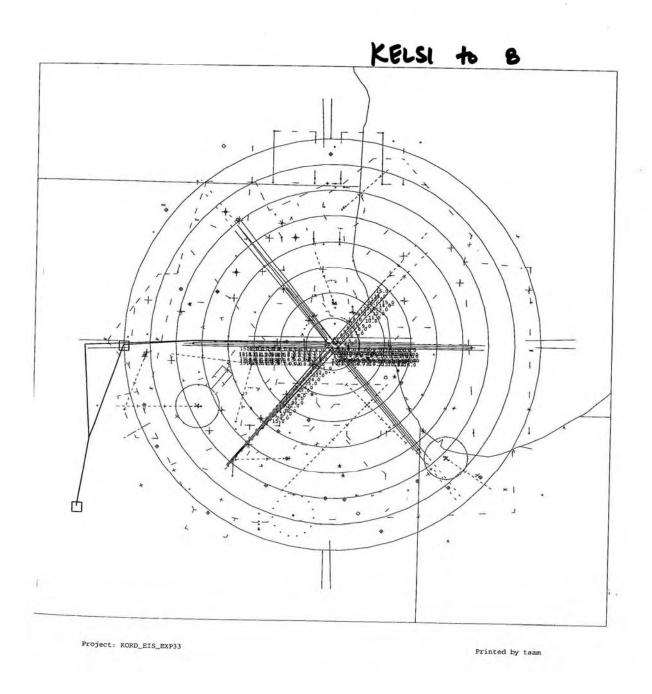
Printed by taam

Group: Jet:	HA	M d L	✓ Tprop:	HØ	MØ	LØ	Piston:	AØ
Display:	Н	Ma L		Н	М	L		Α
Point No. 1 Point Name : KELSI Altitude : - 16000			ude : N41 26 20	0.3			ude : W088 59 10 - 250	28.9
Point No. 2 Point Name : ORD599 Altitude : - 16000			ude : N41 28 32 : None	.6			ude : W088 59 10 - 250	3.6
Point No. 3 Point Name : ORD586 Altitude : 12000			ude : N41 39 50 : None	Longitude : W088 56 37.2 IAS : 210 - 250				
Point No. 4 Point Name : ORD554 Altitude : 10000			ide : N41 58 3.7 : None	1		Longitu	de : W088 48 0 - 250	5.7
Point No. 5 Point Name : ORD308 Altitude : 6000			ide : N41 59 8.2 : None			Longitu IAS : 17	de : W088 29 0 - 190	37.2
Point No. 6 Point Name : ORD331 Altitude : 2200		2222	de : N41 59 13. : None	3		Longitu IAS: 17	de : W088 02	39.7

KELSI to B

Project: KORD_EIS_EXP33

Continue page 2

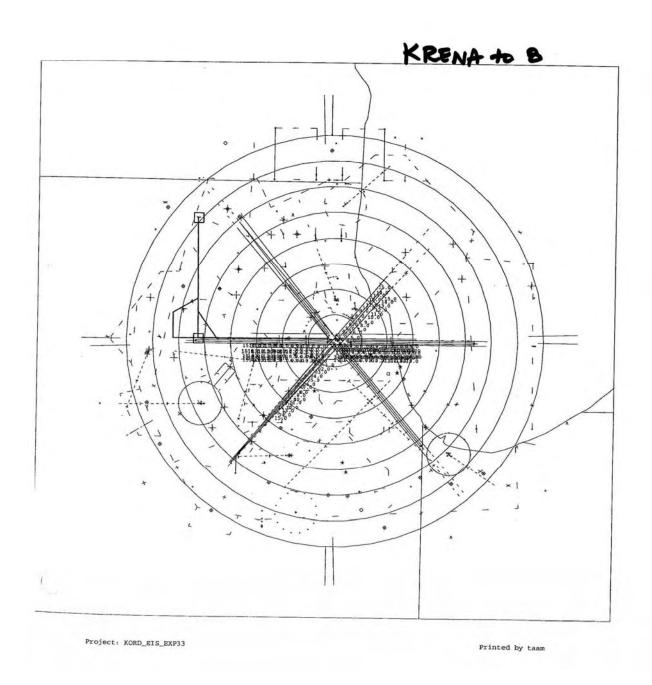


Group: Jet:	HØ	MØ	LØ	Tprop:	HØ	MØ	LØ	Piston:	AM	
Display:	Н	Wil	L		Н	М	L		Α	
Point No. 1 Point Name : KRENA Altitude : 9000			Latitude DME: N	: N42 22 29 Jone	.6			tude: W088 29 5 190 - 250 tude: W088 29 5 190 - 250 tude: W088 29 5 170 - 210	9 58.1	
Point No. 2 Point Name : ORD384 Altitude : 9000			Latitude DME : N	: N42 21 24 lone	.6				9 58.1	
Point No. 3 Point Name : ORD598 Altitude : 7000				: N42 15 24 lone		Longitude : W088 29 52.4 IAS : 170 - 210				
Point No. 4 Point Name : ORD575 Altitude : 7000		DME : None Latitude : N42 06 44.7 DME : None					Longitude : W088 29 43.2 IAS : 170 - 210			
Point No. 5 Point Name : ORD548 Altitude : 7000			Latitude DME : N	: N42 04 10. one	6		Longitu IAS : 17	ide : W088 29	40.8	
Point No. 6 Point Name : ORD308 Altitude : 7000			Latitude DME : N	: N41 59 8.2 one			Longitu IAS : 17	de : W088 29 0 - 190	37.2	
Point No. 7 Point Name : ORD331 Altitude : 2200			atitude	: N41 59 13.	3		Longitu	de : W088 02	39.7	

KRENA to B

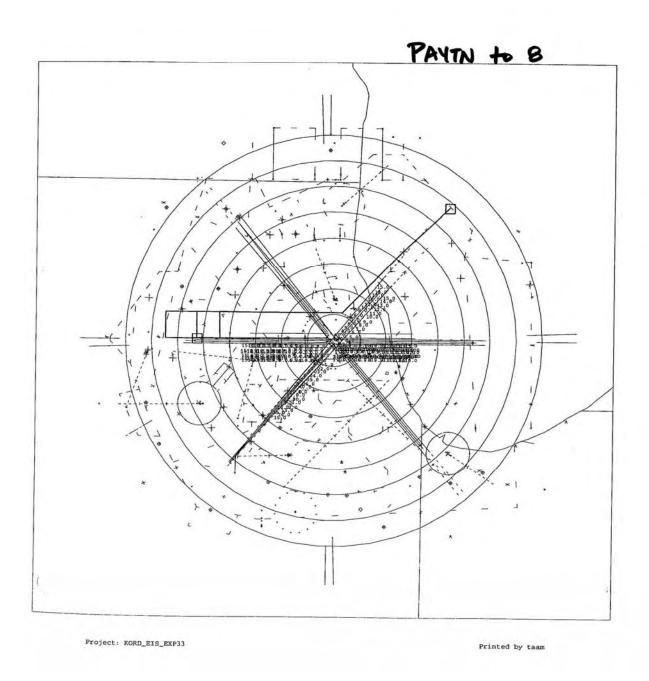
Project: KORD_EIS_EXP33

Continue page 2



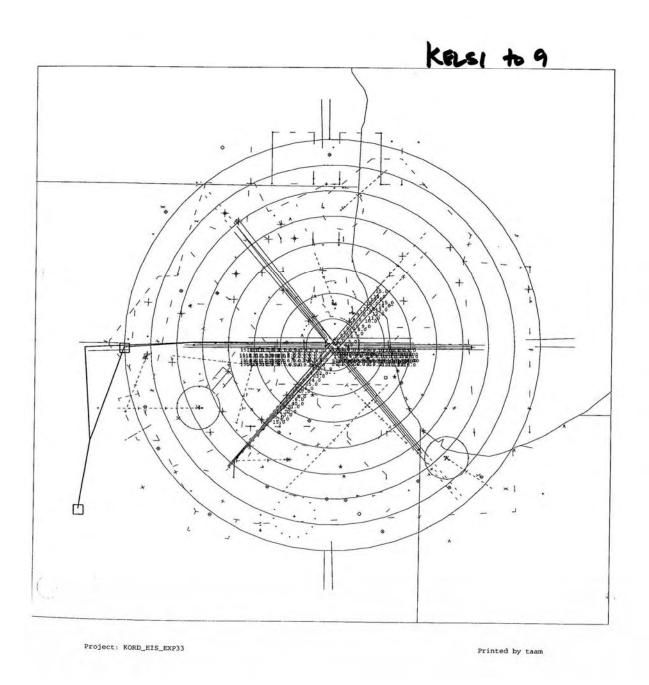
Group: Jet:	HØ	MØ	LØ	Tprop:	HE	MØ	LØ	Piston:	A			
Display:	Н	ME	L		Н	М	L		Α			
Point No. 1 Point Name: PAYTN Altitude: 10000			Latitude DME : N	: N42 24 40 None	.8		Longitu IAS : 21	ide : W087 24 10 - 250	4 35.7			
Point No. 2 Point Name : ORD571 Altitude : 10000			Latitude : N42 23 57.6 Longitude : W087 25 3 DME : None IAS : 210 - 250 Latitude : N42 16 16.7 Longitude : W087 36 2 DME : None IAS : 210 - 250									
Point No. 3 Point Name : PAPPI Altitude : 10000			DME : None IAS : 210 - 250 Latitude : N42 16 16.7 Longitude : W087 36 2 DME : None IAS : 210 - 250									
Point No. 4 Point Name : ORD250 Altitude : 9500								Longitude : W087 42 14.2 IAS : 210 - 250				
Point No. 5 Point Name : ORD241 Altitude : 8000		Latitude : N42 04 8.6 DME : None						Longitude: W087 52 5.9 IAS: 210 - 250				
Point No. 6 Point Name : ORD569 Altitude : 8000		DME : None Latitude : N42 04 9.8 DME : None						Longitude: W088 00 23.3 IAS: 190 - 210				
Point No. 7 Point Name : ORD565 Altitude : 8000			Latitude DME : N	: N42 04 9.0 one			Longitud	de : W088 14 0 - 210	6.2			
Point No. 8 Point Name : ORD548 Altitude : 7000			Latitude DME : N	: N42 04 10. one	6		Longitud	de : W088 29 0 - 190	40.8			
Point No. 9 Point Name : ORD308 Altitude : 6000			_atitude DME : No	: N41 59 8.2 one		Longitud	de : W088 29 0 - 190	37.2				
Point No. 10 Point Name : ORD331 Altitude : 2200			_atitude	: N41 59 13.	3		Longitud	de : W088 02	39.7			





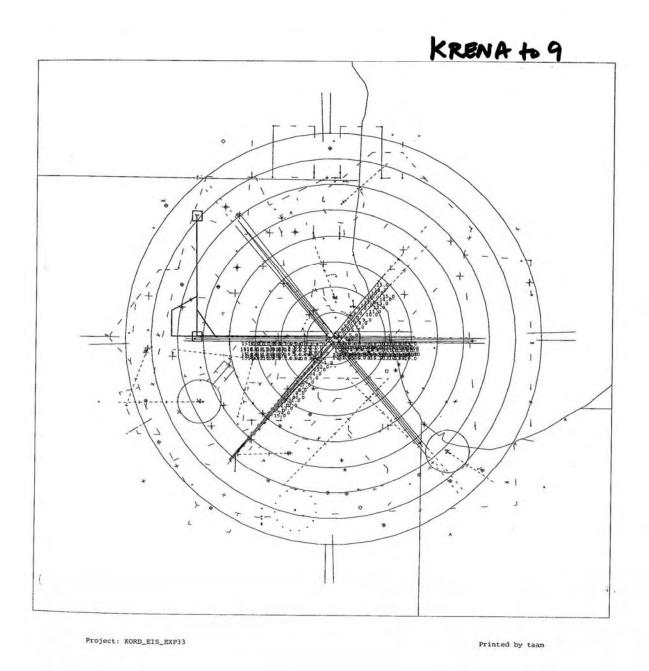
Group: Jet:	ΗØ	$M \boxtimes$	LØ	Tprop:	HØ	MØ	LØ	Piston:	AM	
Display:	н	Mai	L		Н	M	L		Α	
Point No. 1 Point Name : KELSI Altitude : - 16000			Latitude DME : N	e : N41 26 20 None	.3	*		ude : W088 59 10 - 300	28.9	
Point No. 2 Point Name : ORD599 Altitude : - 16000			Latitude DME : N	: N41 28 32 None	.6			ude : W088 59 10 - 300	3.6	
Point No. 3 Point Name : ORD586 Altitude : 12000		Latitude : N41 39 50.4 DME : None					Longitude : W088 56 37.2 IAS : 210 - 250			
Point No. 4 Point Name : ORD554 Altitude : 10000			Latitude DME : N	: N41 58 3.7 lone				ude : W088 48 90 - 250	5.7	
Point No. 5 Point Name : ORD308 Altitude : 6000			_atitude DME : N	: N41 59 8.2	:		Longitu IAS: 17	ude : W088 29 70 - 190	37.2	
Point No. 6 Point Name : ORD331 Altitude : 2200		- 5	_atitude DME : N	: N41 59 13.	3		Longitu	rde: W088 02	39.7	

kası to 9



Group: Jet:	НЫ	MA LA	Tprop:	HØ	MØ	LØ	Piston:	AM	
Display:	Н	ME L		Н	М	L		Α	
Point No. 1 Point Name : KRENA Altitude : 9000		Latitude DME : N	: N42 22 29 one	.6			ide : W088 29	58.1	
Point No. 2 Point Name : ORD384 Altitude : 9000		Latitude DME : N	: N42 21 24. one	6		Longitu	ide : W088 29 90 - 250	58.1	
Point No. 3 Point Name : ORD598 Altitude : 7000		Latitude DME : No	: N42 15 24. one	Longitude : W088 29 52.4 IAS : 190 - 210					
Point No. 4 Point Name : ORD575 Altitude : 7000		Latitude DME : No	: N42 06 44.		Longitude : W088 29 43.2 IAS : 190 - 210				
Point No. 5 Point Name : ORD548 Altitude : 7000		Latitude :	: N42 04 10.		Longitude : W088 29 40.8 IAS : 170 - 190				
Point No. 6 Point Name : ORD308 Altitude : 7000		Latitude : DME : No	: N41 59 8.2 one			Longitud	de : W088 29 0 - 190	37.2	
Point No. 7 Point Name : ORD331 Altitude : 2200		Latitude : DME : No	N41 59 13.3	3		Longitud	de : W088 02	39.7	

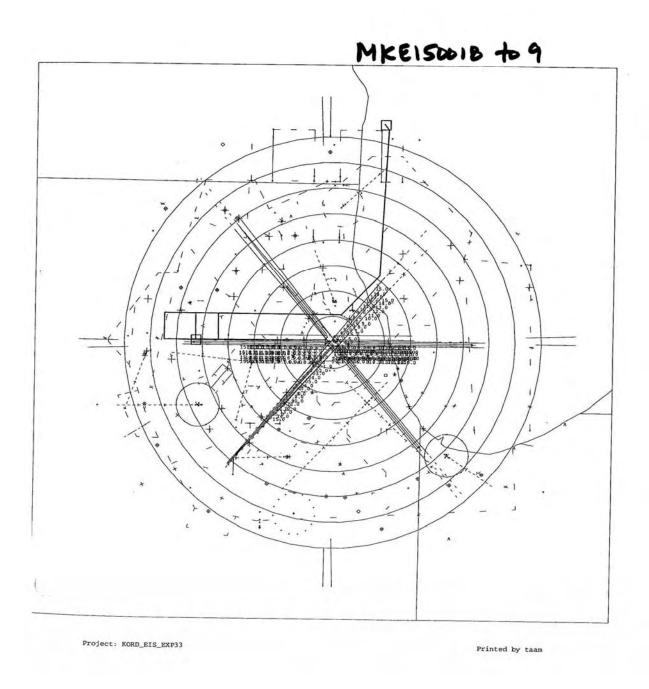
KRENA to 9



Appendix D D-237 July 2005

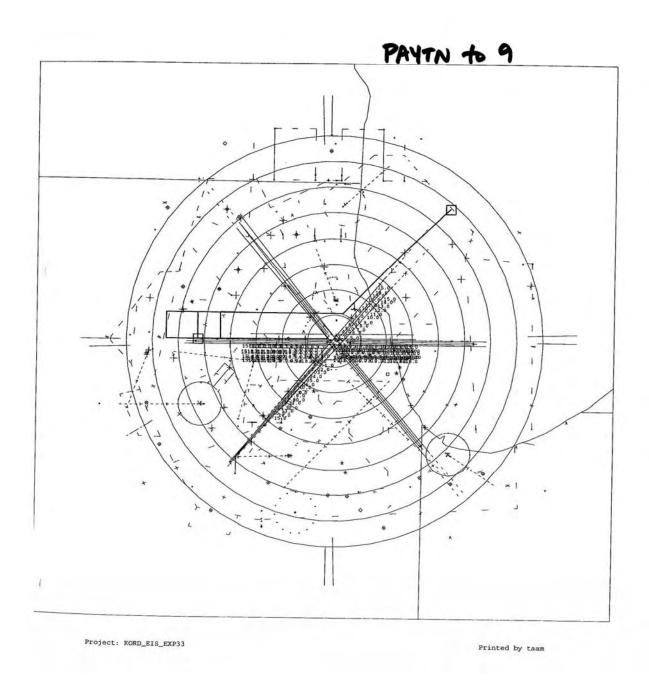
Group: Jet:	Н⊠	MØ	LØ	Tprop:	Н⊠	MØ	LØ	Piston:	AM	
Display:	Н	ME	L		Н	М	L		Α	
Point No. 1 Point Name : MKE15 Altitude : 8000	0018		Latitude DME : N	: N42 41 17 lone	.6			ude : W087 4 90 - 250	1 29.8	
Point No. 2 Point Name : ORD570 Altitude : 8000)		Latitude DME : N	: N42 40 8.8	3			ude : W087 40 90 - 250	23.2	
Point No. 3 Point Name : ORD250 Altitude : 7000	No. 3 Name : ORD250 Latitude : N42 11 47.8 Longitude : W087 4								2 14.2	
Point No. 4 Point Name : ORD241 Altitude : 7000		Latitude : N42 04 8.6 Longitude : W087 DME : None IAS : 190 - 210							2 5.9	
Point No. 5 Point Name : ORD565 Altitude : 7000			_atitude DME : N	: N42 04 9.0 one			Longitude : W088 14 6.2 IAS : 190 - 210			
Point No. 6 Point Name : ORD548 Altitude : 6000			atitude	: N42 04 10. one	6		Longitu IAS:17	de : W088 29 0 - 190	40.8	
Point No. 7 Point Name : ORD308 Latitude : N41 59 8.2 Longitude : Altitude : 4000 DME : None IAS : 170 - 1							de : W088 29 0 - 190	37.2		
Point No. 8 Point Name : ORD331 Altitude : 2200			atitude	: N41 59 13.:	3		Longitu	de : W088 02	39.7	

MKEISOOIB to 9



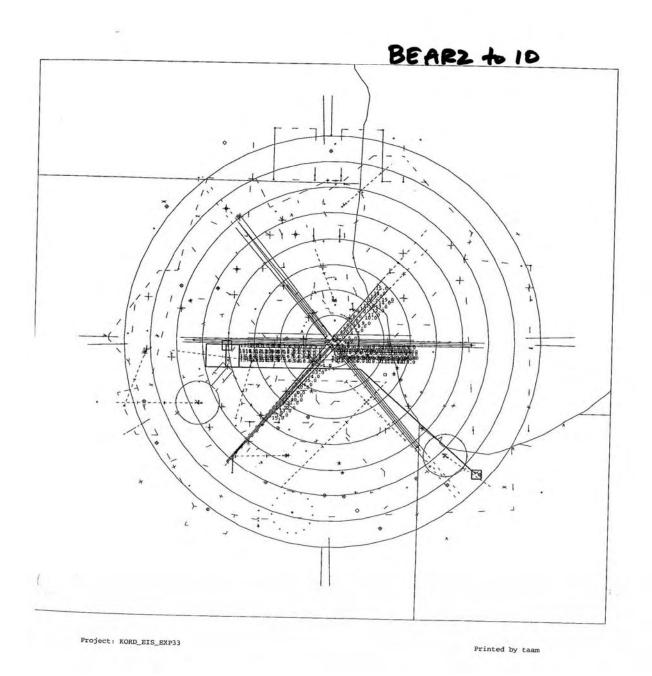
Group: Jet:	HØ	MØ	LØ	Tprop:	Н 🗆	M 🗆	Lo	Piston:	A
Display:	Н	Med	L		Н	М	L		Α
Point No. 1 Point Name : PAYTN Altitude : 10000			Latitude DME : N	: N42 24 40 None	0.8			ude : W087 2 10 - 250	4 35.7
Point No. 2 Point Name : ORD571 Altitude : 10000			Latitude DME : N	: N42 23 57 None	.6			ude : W087 2 10 - 250	5 37.1
Point No. 3 Point Name : PAPPI Altitude : 10000			Latitude DME : N	: N42 16 16 None	.7		Longitu IAS : 21	ide : W087 3 10 - 250	6 26.1
Point No. 4 Point Name : ORD250 Altitude : 9500			Latitude DME : N	: N42 11 47 lone	.8		Longitu IAS : 21	de : W087 4:	2 14.2
Point No. 5 Point Name : ORD241 Altitude : 8000			Latitude DME : N	: N42 04 8.6	i		Longitu IAS : 21	de : W087 52 0 - 250	2 5.9
Point No. 6 Point Name : ORD569 Altitude : 8000			_atitude DME : N	: N42 04 9.8			Longitu	de : W088 00 0 - 210	23.3
Point No. 7 Point Name : ORD565 Altitude : 8000		100	_atitude DME : N	: N42 04 9.0 one			Longitud	de : W088 14 0 - 210	6.2
Point No. 8 Point Name : ORD548 Altitude : 7000			atitude	: N42 04 10. one	6		Longitud	de : W088 29 0 - 190	40.8
Point No. 9 Point Name : ORD308 Altitude : 6000			atitude DME : No	: N41 59 8.2 one			Longitud	de : W088 29 0 - 190	37.2
Point No. 10 Point Name : ORD331 Altitude : 2200			atitude	: N41 59 13.:	3		Longitud	de : W088 02	39.7

PAYTN to 9



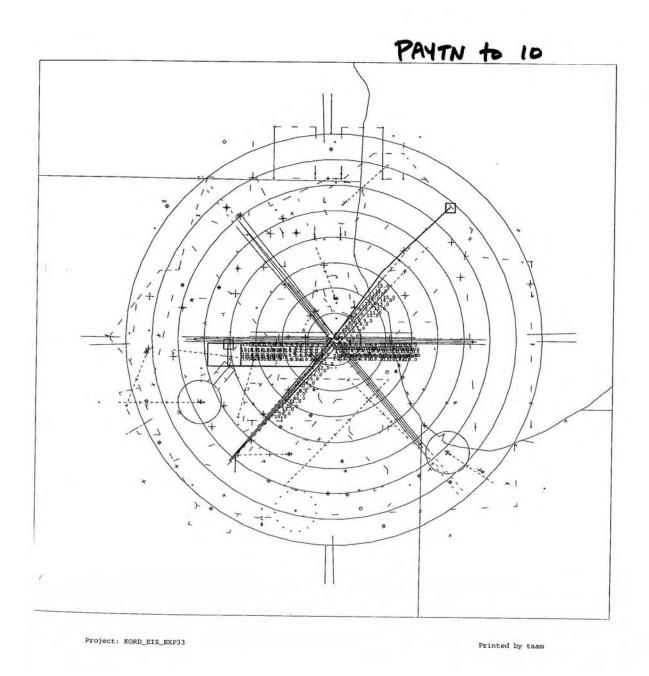
Display:	Н	M	L		Н	М	L		Α
Point No. 1 Point Name : BEARZ Altitude : 11000			Latitude DME : N	e : N41 33 36 None	.4		Longitu IAS: 23	ude : W087 1	6 32.9
Point No. 2 Point Name : ORD580 Altitude : 11000			Latitude DME : N	: N41 34 54 None	.5		Longitu IAS : 21	ide : W087 18 10 - 300	8 31.0
Point No. 3 Point Name : ORD503 Altitude : 10000			Latitude DME : N	: N41 53 28. None	8		Longitu IAS : 19	de : W087 40 00 - 250	5 51.1
Point No. 4 Point Name : ORD529 Altitude : 10000			_atitude DME : N	: N41 53 28. lone	7		Longitu IAS : 19	de : W087 59	53.8
Point No. 5 Point Name : ORD579 Altitude : 8000			_atitude DME : N	: N41 53 25.	9		Longitu	de : W088 13 0 - 210	54.6
Point No. 6 Point Name : ORD337 Altitude : 6000			atitude DME : N	: N41 53 27.	5		Longitud	de : W088 21 0 - 210	41.6
Point No. 7 Point Name : ORD338 Altitude : 5000			atitude	: N41 57 48.	0		Longitud	de : W088 21 0 - 190	40.5
Point No. 8 Point Name : ORD342 Altitude : 5000			atitude	: N41 57 49.1 one	3		Longitud	de : W088 13 0 - 190	32.4
Point No. 9 Point Name : ORD339 Altitude : 2200			atitude :	: N41 57 53.8	ı		Longitud	de : W088 03	2.9

BEARS to 10



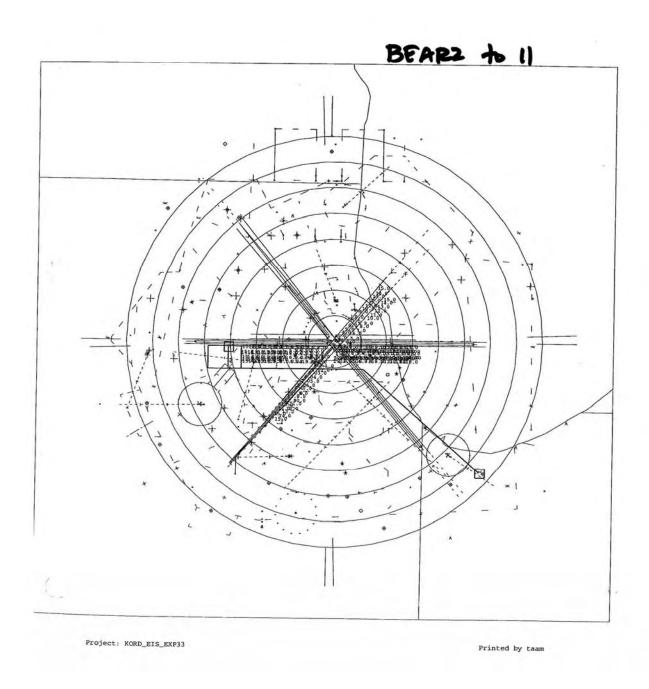
Group: Jet:	HØ	MØ	LØ	Tprop:	HØ	MØ	LØ	Piston:	AØ
Display:	Н	Mat	L		н	М	L		Α
Point No. 1 Point Name : PAYTN Altitude : 10000			Latitude DME : N	: N42 24 40 Ione	.8		Longitu IAS:21	ide : W087 24 10 - 250	35.7
Point No. 2 Point Name : ORD571 Altitude : 10000			Latitude DME : N	: N42 23 57	.6		Longitu IAS : 21	ide : W087 25	37.1
Point No. 3 Point Name : PAPPI Altitude : 10000			Latitude DME : N	: N42 16 16. one	.7		Longitu IAS : 21	de : W087 36 0 - 250	26.1
Point No. 4 Point Name : ORD250 Altitude : 10000			Latitude DME : N	: N42 11 47. one	8		Longitu	de : W087 42 0 - 210	14.2
Point No. 5 Point Name : ORD529 Altitude : 8000			Latitude DME : No	: N41 53 28.	7		Longitud	de : W087 59 0 - 210	53.8
Point No. 6 Point Name : ORD337 Altitude : 7000			_atitude DME : No	: N41 53 27.	5		Longitud	de : W088 21 0 - 190	41.6
Point No. 7 Point Name : ORD338 Altitude : 5000			atitude :	: N41 57 48.0	0		Longitud	de : W088 21 0 - 190	40.5
Point No. 8 Point Name : ORD342 Altitude : 5000			atitude :	N41 57 49.8	3		Longitud	de : W088 13	32.4
Point No. 9 Point Name : ORD339 Altitude : 2200			atitude :	N41 57 53.8			Longitud	le : W088 03	2.9

PANTN to 10



Group: Jet:	Н⊠	MØ	LØ	Tprop:	Η□	М□	Lo	Piston:	A 🗆
Display:	Н	No.	L		Н	М	L		Α
Point No. 1 Point Name : BEARZ Altitude : 11000			Latitude DME : N	: N41 33 36 lone	.4			ude : W087 16	32.9
Point No. 2 Point Name : ORD580 Altitude : 11000			Latitude DME : N	: N41 34 54.	.5		Longiti	ude : W087 18	31.0
Point No. 3 Point Name : ORD503 Altitude : 10000			Latitude DME : N	: N41 53 28. one	8			ude : W087 46 90 - 250	51.1
Point No. 4 Point Name : ORD529 Altitude : 10000			Latitude DME : N	: N41 53 28. one	7		Longitu	ude : W087 59 90 - 210	53.8
Point No. 5 Point Name : ORD579 Altitude : 8000			_atitude DME : No	: N41 53 25.	9			ude : W088 13 70 - 210	54.6
Point No. 6 Point Name : ORD337 Altitude : 6000			_atitude DME : No	: N41 53 27.	5		Longitu IAS:17	ide : W088 21 70 - 210	41.6
Point No. 7 Point Name : ORD338 Altitude : 5000			atitude :	: N41 57 48.0)		Longitu IAS : 17	ide : W088 21	40.5
Point No. 8 Point Name : ORD342 Altitude : 5000			atitude :	N41 57 49.8	3		Longitu	de: W088 13:	32.4
Point No. 9 Point Name : ORD339 Altitude : 2200			atitude :	N41 57 53.8			Longitud	de : W088 03 2	2.9

BEARS to 11



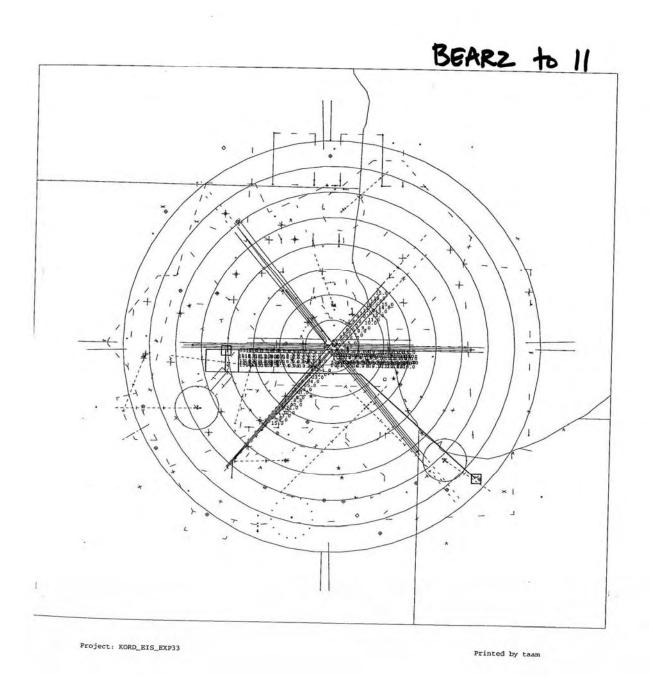
Group: Jet:	нп	М□	Lo	Tprop:	ны	Mø	LØ	Piston:	AM
Display:	Н	М	L		Н	M	L	i iotori,	A
Point No. 1 Point Name : BEARZ Altitude : 8000			Latitude DME : I	e : N41 33 36 None	.4			ude : W087 1	6 32.9
Point No. 2 Point Name : ORD580 Altitude : 8000			Latitude DME : N	: N41 34 54. None	.5		Longitu	ude : W087 18	3 31.0
Point No. 3 Point Name : ORD503 Altitude : 8000			Latitude DME : N	: N41 53 28. Jone	8		Longitu	ude : W087 46	5 51.1
Point No. 4 Point Name : ORD529 Altitude : 7000			Latitude DME : N	: N41 53 28. lone	7		Longitu	ude : W087 59 90 - 210	53.8
Point No. 5 Point Name : ORD579 Altitude : 7000			_atitude DME : N	: N41 53 25.	9		Longitu IAS : 19	ide : W088 13	54.6
Point No. 6 Point Name : ORD337 Altitude : 6000			_atitude DME : N	: N41 53 27.5	5		Longitu	de : W088 21 0 - 190	41.6
Point No. 7 Point Name : ORD338 Altitude : 6000			atitude	: N41 57 48.0)		Longitud	de : W088 21 0 - 190	40.5
Point No. 8 Point Name : ORD342 Altitude : 5000	1		atitude ME : No	: N41 57 49.8 one			Longitud	de : W088 13 0 - 190	32.4
Point No. 9 Point Name : ORD339 Altitude : None			atitude :	: N41 57 53.8 one			Longitud	de: W088 03	2.9

BEARZ to 11

Project: KORD_EIS_EXP33

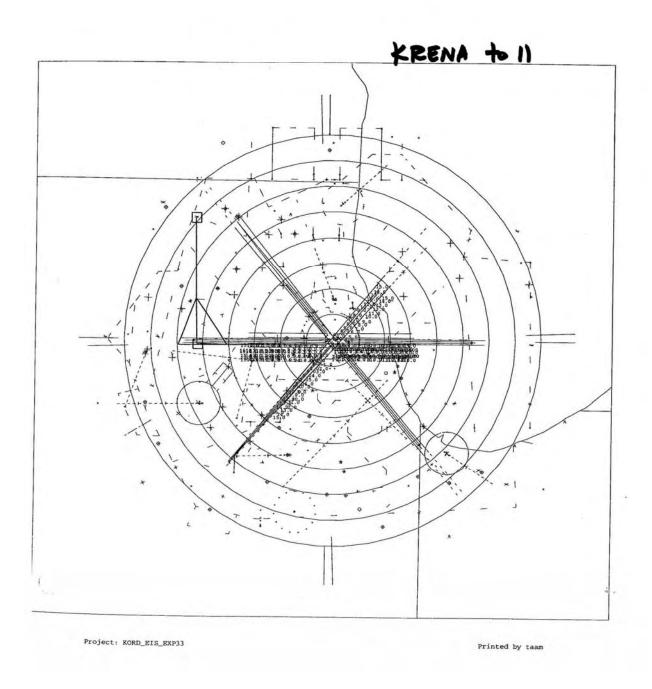
Continue page 2

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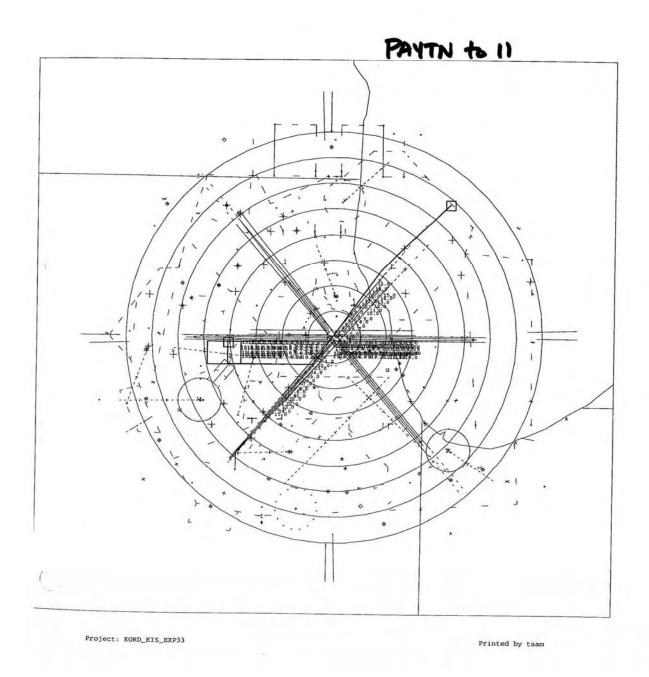
Group: Jet:	HØ	MØ	LØ	Tprop:	HØ	MØ	LØ	Piston:	A
Display:	Н	ME	L		Н	М	L		Α
Point No. 1 Point Name: KRENA Altitude: 9000			Latitude DME : N	e : N42 22 29 None	0.6			ude : W088 29 90 - 250	58.1
Point No. 2 Point Name : ORD384 Altitude : 9000			Latitude DME : N	e : N42 21 24 None	.6			ude : W088 29 90 - 250	58.1
Point No. 3 Point Name : ORD598 Altitude : 7000			Latitude DME : N	: N42 15 24 None	.5			ude : W088 29 90 - 210	52.4
Point No. 4 Point Name : ORD575 Altitude : 7000			Latitude DME : N	: N42 06 44 None	.7			ude : W088 29 90 - 210	43.2
Point No. 5 Point Name : ORD332 Altitude : 6000			Latitude DME : N	: N41 58 0.4 lone	1			ude : W088 29 70 - 190	27.7
Point No. 6 Point Name : ORD338 Altitude : 5000			Latitude DME : N	: N41 57 48 lone	.0		Longitu IAS : 17	ıde : W088 21 70 - 190	40.5
Point No. 7 Point Name : ORD339 Altitude : 2200			_atitude DME : N	: N41 57 53.	.8		Longitu	ide: W088 03	2.9

KRENA to 11



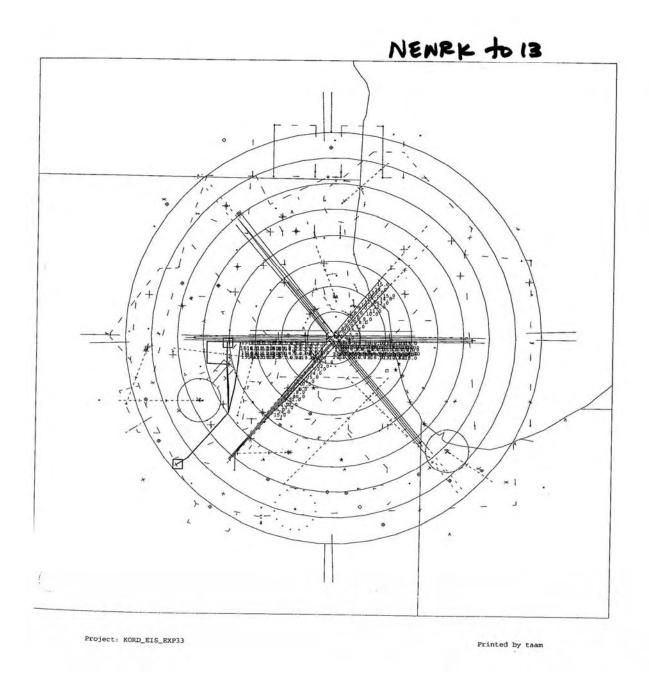
Group: Jet:	HØ	MØ	LØ	Tprop:	HØ	$M \boxtimes$	LØ	Piston:	AØ
Display:	Н	ME	L		н	М	L		Α
Point No. 1 Point Name : PAYTN Altitude : 10000			Latitude DME : N	: N42 24 40 lone	.8			ude : W087 24 10 - 250	4 35.7
Point No. 2 Point Name : ORD571 Altitude : 10000			Latitude DME : N	: N42 23 57 lone	.6		Longitu IAS : 21	ide : W087 25 10 - 250	37.1
Point No. 3 Point Name : PAPPI Altitude : 10000			Latitude DME : N	: N42 16 16 lone	.7		Longitu IAS : 21	ide : W087 30 10 - 250	5 26.1
Point No. 4 Point Name : ORD250 Altitude : 10000			Latitude DME : N	: N42 11 47.	.8		Longitu	ide : W087 42 00 - 210	2 14.2
Point No. 5 Point Name : ORD529 Altitude : 8000			Latitude DME : N	: N41 53 28.	7		Longitu	de : W087 59 00 - 210	53.8
Point No. 6 Point Name : ORD337 Altitude : 7000			Latitude DME : N	: N41 53 27.	5		Longitu IAS : 17	de : W088 21 0 - 190	41.6
Point No. 7 Point Name : ORD338 Altitude : 5000			Latitude DME : N	: N41 57 48. one	0		Longitu IAS : 17	de : W088 21 0 - 190	40.5
Point No. 8 Point Name : ORD342 Altitude : 5000			Latitude DME : N	: N41 57 49. one	8		Longitu IAS : 17	de : W088 13 0 - 190	32.4
Point No. 9 Point Name : ORD339 Altitude : 2200			Latitude	: N41 57 53.	8		Longitu	de : W088 03	2.9

PAYIN to 11



Group: Jet:	Н⊠	Mø	LØ	Tprop:	Η□	Μ□	LD	Piston:	A 🗆
Display:	Н	Mil	L		Н	М	L		Α
Point No. 1 Point Name: NEWRK Altitude: 11000			atitude ME : N	: N41 33 58 None	.1			ude : W088 34 10 - 300	16.0
Point No. 2 Point Name : NEWRK Altitude : 11000	FIX		atitude ME : N	: N41 35 14 None	.5			ude : W088 31 10 - 300	31.0
Point No. 3 Point Name : ORD2B Altitude : 7000			atitude ME : N	: N41 44 0.9 None)			ude : W088 21 90 - 250	7.0
Point No. 4 Point Name : ORD1A Altitude : 7000			atitude ME : N	: N41 48 47 None	.2			ide : W088 21 90 - 210	7.0
Point No. 5 Point Name : ORD337 Altitude : 6000			atitude ME : N	: N41 53 27 lone	.5			ide : W088 21 70 - 190	41.6
Point No. 6 Point Name : ORD338 Altitude : 5000		77.7	titude ME : N	: N41 57 48 lone	.0		Longitu IAS : 17	ide : W088 21 70 - 210	40.5
Point No. 7 Point Name : ORD342 Altitude : 4000			ititude ME : N	: N41 57 49.	.8		Longitu IAS : 17	de : W088 13 0 - 190	32.4
Point No. 8 Point Name : ORD339 Altitude : 2200		-	titude ME : N	: N41 57 53.	8		Longitu IAS:17	de : W088 03	2.9

Newer to 13



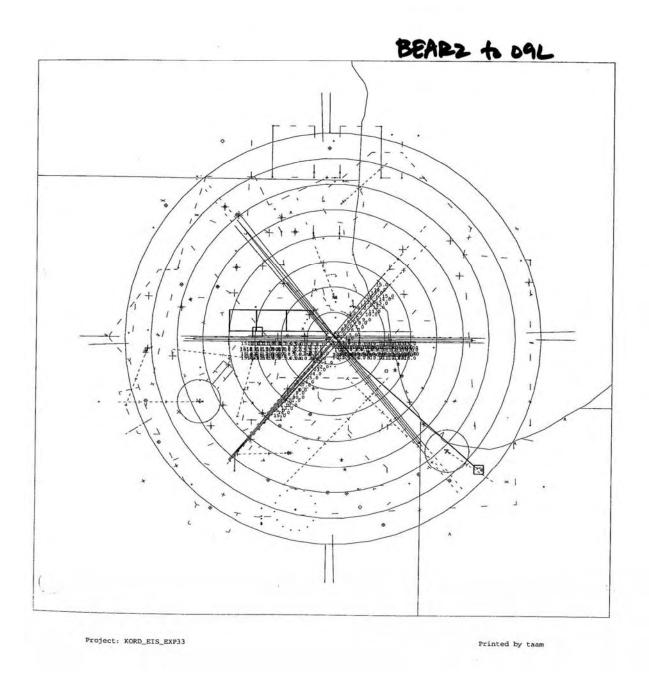
Group: Jet:	Н⊠	MØ	LØ	Tprop:	Η□	Μ□	Lo	Piston:	A 🗆	
Display:	н	M	L		Н	М	L		Α	
Point No. 1 Point Name : BEARZ Altitude : 11000			Latitude	e : N41 33 36 None	5.4			ude : W087 1 10 - 300	6 32.9	4
Point No. 2 Point Name : ORD580 Altitude : 11000			Latitude DME:1	e : N41 34 54 None	.5			ude : W087 18 10 - 300	8 31.0	
Point No. 3 Point Name : ORD503 Altitude : 8000			Latitude DME : N	e : N41 53 28 None	.8			ude : W087 40 90 - 250	5 51.1	
Point No. 4 Point Name : ORD569 Altitude : 7000			Latitude DME : N	e : N42 04 9.8 None	3			ude : W088 00 70 - 210	23.3	
Point No. 5 Point Name : ORD565 Altitude : 6000			Latitude DME : N	e : N42 04 9.0 None)			ude : W088 14 70 - 210	6.2	
Point No. 6 Point Name : ORD563 Altitude : 4000			Latitude DME : N	: N42 00 7.0 None)			ude : W088 14 70 - 210	6.4	
Point No. 7 Point Name : ORD562 Altitude : 2200			Latitude	: N42 00 8.3 None	3		Longitu IAS : 17	ude : W088 02 70	23.1	

BEAR2 to OGL

Project: KORD_EIS_EXP33

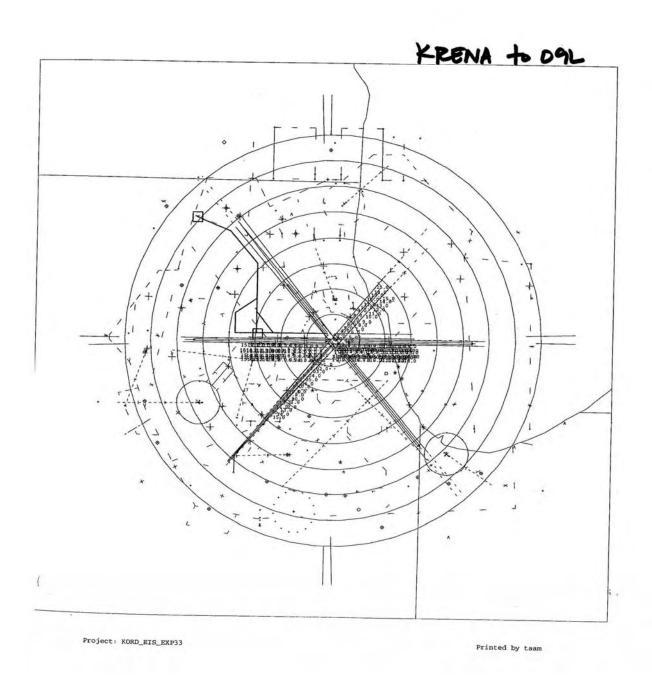
Continue page 2

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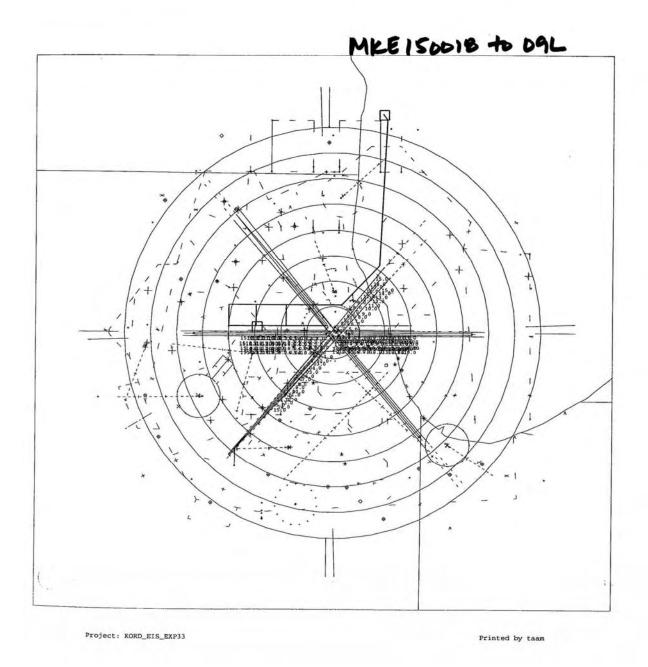
Group: Jet:	ΗØ	MØ	LA	Tprop:	HØ	MØ	LØ	Piston:	AM
Display:	Н	Mai	L		Н	М	L		Α
Point No. 1 Point Name : KRENA Altitude : 9000			Latitude DME : N	: N42 22 29 Ione	2.6			ude : W088 29 90 - 250	58.1
Point No. 2 Point Name : ORD671 Altitude : 9000			Latitude DME : N	: N42 22 0. lone	7			ude : W088 28 90 - 250	3 20.5
Point No. 3 Point Name : FARMM Altitude : 7000			Latitude DME : N	: N42 19 54 one	.1		Longitu IAS: 19	ide : W088 21 90 - 210	13.5
Point No. 4 Point Name : ORD216 Altitude : 7000			Latitude DME : N	: N42 13 39 one	.4		Longitu	ide : W088 14 70 - 210	7.1
Point No. 5 Point Name : ORD566 Altitude : 7000			_atitude DME : N	: N42 06 43.	7		Longitu IAS:17	de : W088 14 0 - 210	7.6
Point No. 6 Point Name : ORD565 Altitude : 6000			atitude DME : No	: N42 04 9.0 one			Longitud	de : W088 14 0 - 210	6.2
Point No. 7 Point Name : ORD563 Altitude : 4000			atitude :	: N42 00 7.0 one			Longitud	de : W088 14 0 - 210	6.4
Point No. 8 Point Name : ORD562 Altitude : 2200			atitude :	N42 00 8.3			Longitud	de: W088 02	23.1

KRENA to OGL



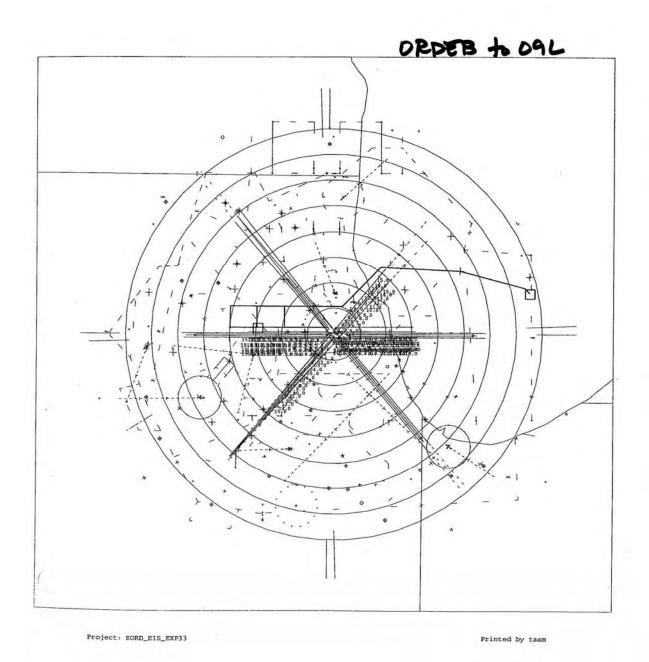
Group: Jet:	Н⊠	MØ	LØ	Tprop:	HØ	MØ	LØ	Piston:	AØ
Display:	Н	MIZ	L		Н	М	L		Α
Point No. 1 Point Name : MKE15	0018		Latitude	: N42 41 17	.6		Longitu	ide: W087 4	1 29.8
Altitude: 8000			DME:N	lone				00 - 250	25.0
Point No. 2 Point Name : ORD570 Altitude : 8000)		Latitude DME : N	: N42 40 8.8 Ione	1		Longitu IAS : 19	ide : W087 40 90 - 250	23.2
Point No. 3 Point Name : ORD250 Altitude : 7000)		Latitude DME : N	: N42 11 47 lone	.8		Longitu IAS : 19	de : W087 42 00 - 250	2 14.2
Point No. 4 Point Name : ORD241 Altitude : 7000	ı		Latitude DME : N	: N42 04 8.6			Longitu IAS : 19	de : W087 52 00 - 210	2 5.9
Point No. 5 Point Name : ORD569 Altitude : 7000	,		Latitude DME : N	: N42 04 9.8			Longitu IAS : 19	de : W088 00 0 - 210	23.3
Point No. 6 Point Name : ORD565 Altitude : 6000			Latitude DME : N	: N42 04 9.0 one			Longitu IAS : 17	de : W088 14 0 - 190	6.2
Point No. 7 Point Name : ORD563 Altitude : 4000			_atitude DME : N	: N42 00 7.0			Longitu IAS:17	de : W088 14 0 - 190	6.4
Point No. 8 Point Name : ORD562 Altitude : 2200			_atitude DME : N	: N42 00 8.3 one			Longitu	de : W088 02	23.1

MKE 150018 + 09L



Group: Jet:	HØ	MØ	LØ	Tprop:	HØ	MØ	LØ	Piston:	AM
Display:	Н	M	L		Н	М	L		Α
Point No. 1 Point Name : ORDEB Altitude : 7000			Latitude	∋ : N42 06 44 None	.9			ude : W087 0 90 - 250	3 48.1
Point No. 2 Point Name : ORD385 Altitude : 7000			Latitude DME : N	e : N42 07 43 None	.1			ude : W087 0 90 - 250	5 0.6
Point No. 3 Point Name : BRAIK Altitude : 7000			Latitude DME : N	e : N42 11 2.2 None	2		Longitu IAS: 19	ide : W087 2 00 - 250	1 43.8
Point No. 4 Point Name : ORD250 Altitude : 7000			Latitude DME : N	e : N42 11 47 None	.8		Longitu	ide : W087 4	2 14.2
Point No. 5 Point Name : ORD241 Altitude : 7000			Latitude DME : N	: N42 04 8.6 None			Longitu IAS : 17	ide: W087 5	2 5.9
Point No. 6 Point Name : ORD569 Altitude : 7000			Latitude DME : N	: N42 04 9.8 None			Longitu IAS : 17	de : W088 00 0 - 210	23.3
Point No. 7 Point Name : ORD565 Altitude : 6000			Latitude	: N42 04 9.0 None			Longitu IAS : 17	de : W088 14 0 - 210	1 6.2
Point No. 8 Point Name : ORD563 Altitude : 4000			Latitude DME : N	: N42 00 7.0 lone			Longitu IAS : 17	de : W088 14 0 - 210	1 6.4
Point No. 9 Point Name : ORD562 Altitude : 2200			Latitude	: N42 00 8.3			Longitu	de : W088 02	2 23.1

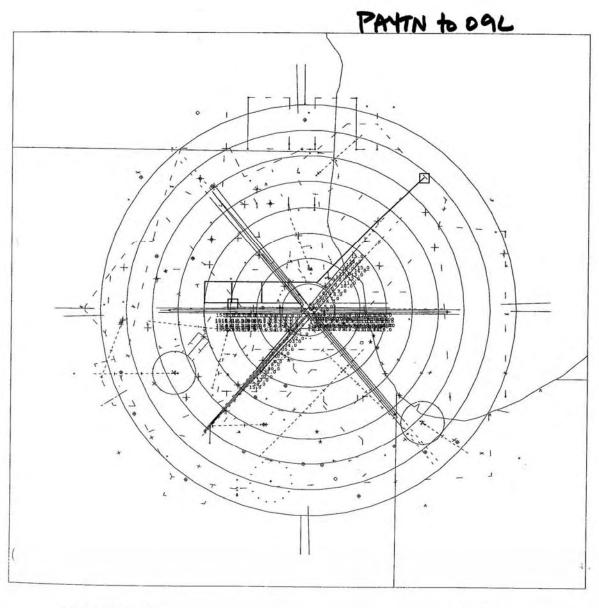
ORDEB to DOL



Appendix D D-263 July 2005

Group: Jet:	НЫ	MØ	LØ	Tprop:	н 🗆	М□	Lo	Piston:	A 🗆			
Display:	Н	M	L		Н	М	L		Α			
Point No. 1 Point Name : PAYTN Altitude : 10000	*		Latitude DME : N	: N42 24 40 None	.8			ude : W087 2 10 - 250	4 35.7			
Point No. 2 Point Name : ORD571 Altitude : 10000			Latitude DME : N	: N42 23 57 None	Longitude : W087 25 37.1 IAS : 210 - 250							
Point No. 3 Point Name : PAPPI Altitude : 10000			Latitude DME : N	: N42 16 16 None		Longitude : W087 36 26.1 IAS : 210 - 250						
Point No. 4 Point Name : ORD250 Altitude : 9500		Latitude: N42 11 47.8 DME: None						Longitude : W087 42 14.2 IAS : 210 - 250				
Point No. 5 Point Name : ORD241 Altitude : 8000		Latitude : N42 04 8.6 DME : None						Longitude : W087 52 5.9 IAS : 190 - 210				
Point No. 6 Point Name : ORD569 Altitude : 7000			Latitude DME : N	: N42 04 9.8		Longitude : W088 00 23.3 IAS : 190 - 210						
Point No. 7 Point Name : ORD565 Altitude : 6000			Latitude DME : N	: N42 04 9.0 one	Longitude : W088 14 6.2 IAS : 170 - 190							
Point No. 8 Point Name : ORD563 Altitude : 4000			_atitude DME : N	: N42 00 7.0 one		Longitu	de : W088 14 0 - 190	6.4				
Point No. 9 Point Name : ORD562 Altitude : 2200			_atitude DME : N	: N42 00 8.3 one			Longitue	de : W088 02	23.1			

PAYIN to 09L

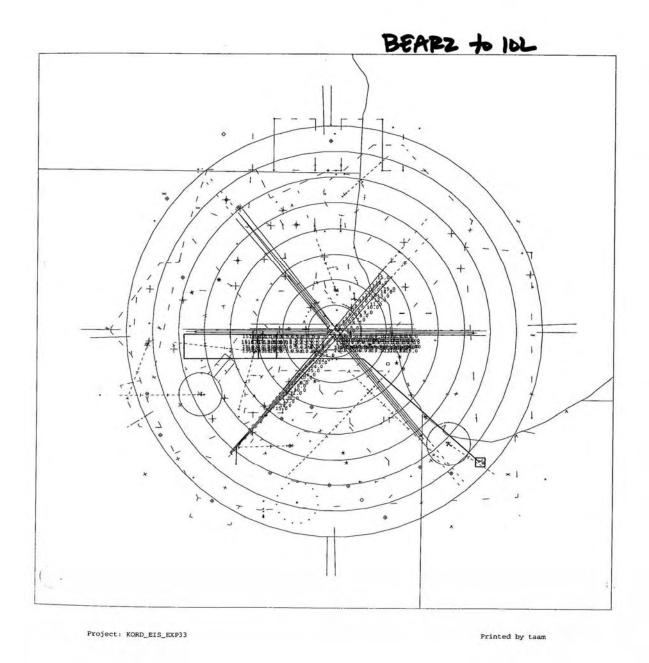


Project: KORD_EIS_EXP33

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Group: Jet:	HØ	MØ	LØ	Tprop:	HØ	MØ	LØ	Piston:	AØ	
Display:	Н	M	L		Н	М	L		Α	
Point No. 1 Point Name: BEARZ Altitude: 11000			Latitude DME : N	: N41 33 36 None	.4			ide : W087 16 10 - 300	6 32.9	
Point No. 2 Point Name : ORD580 Altitude : 11000			Latitude DME : N	: N41 34 54 None	.5	Longitude : W087 18 31.0 IAS : 210 - 300				
Point No. 3 Point Name : ORD503 Altitude : 8000			Latitude DME : N	: N41 53 28 None		Longitude : W087 46 51.1 IAS : 190 - 250				
Point No. 4 Point Name : ORD529 Altitude : 7000			Latitude DME : N	: N41 53 28 lone		Longitude : W087 59 53.8 IAS : 190 - 210				
Point No. 5 Point Name : ORD579 Altitude : 6000	1	Latitude: N41 53 25.9 DME: None					Longitude : W088 13 54.6 IAS : 170 - 210			
Point No. 6 Point Name : ORD383 Altitude : 5000		Latitude : N41 58 1.8 DME : None					Longitude : W088 14 8.0 IAS : 170 - 210			
Point No. 7 Point Name : ORD581 Altitude : 2200	Name : ORD581 Latitude : N41 58 5.9						Longitu	de : W088 03	3.3	

BEARZ to low



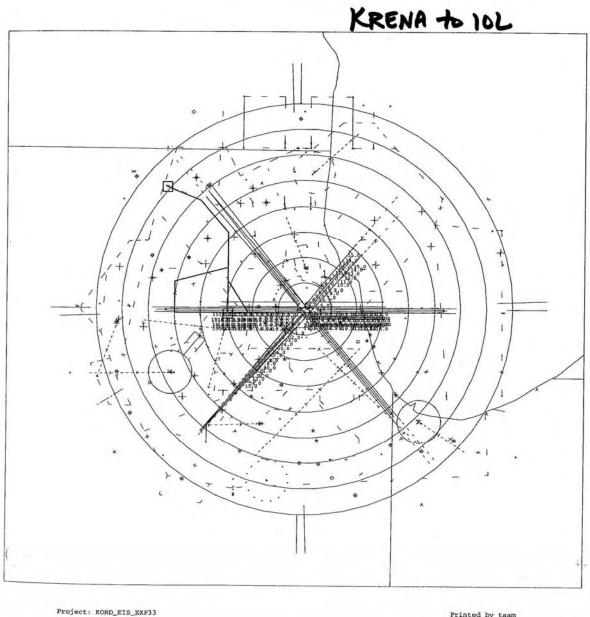
Group: Jet:	HØ	MØ	LØ	Tprop:	HØ	MØ	LØ	Piston:	AM	
Display:	Н	M	L		н	М	L		Α	
Point No. 1 Point Name : KRENA Altitude : 9000			Latitude	: N42 22 29 Jone	.6	-		ide : W088 29	58.1	
Point No. 2 Point Name : ORD671 Altitude : 9000			Latitude DME : N	: N42 22 0.7	,			nde : W088 28 90 - 250	3 20.5	
Point No. 3 Point Name : FARMM Altitude : 7000	1	Latitude: N42 19 54.1 Longitude: W088 2: DME: None IAS: 190 - 210							13.5	
Point No. 4 Point Name : ORD216 Altitude : 7000	9		Latitude DME : N	: N42 13 39.	-	Longitude: W088 14 7.1 IAS: 190 - 210				
Point No. 5 Point Name : ORD566 Altitude : 7000			Latitude DME : N	: N42 06 43.	7		Longitude : W088 14 7.6 IAS : 170 - 210			
Point No. 6 Point Name : ORD565 Altitude : 6000			Latitude DME : N	: N42 04 9.0	Ė		Longitu IAS : 17	de : W088 14 0 - 210	6.2	
Point No. 7 Point Name : ORD383 Altitude : 5000			Latitude DME : N	: N41 58 1.8 one			Longitu IAS:17	de : W088 14 0 - 190	8.0	
Point No. 8 Point Name : ORD581 Altitude : 2200			Latitude DME : N	: N41 58 5.9 one			Longitu	de : W088 03	3.3	

KRENA to IOL

Project: KORD_EIS_EXP33

Continue page 2

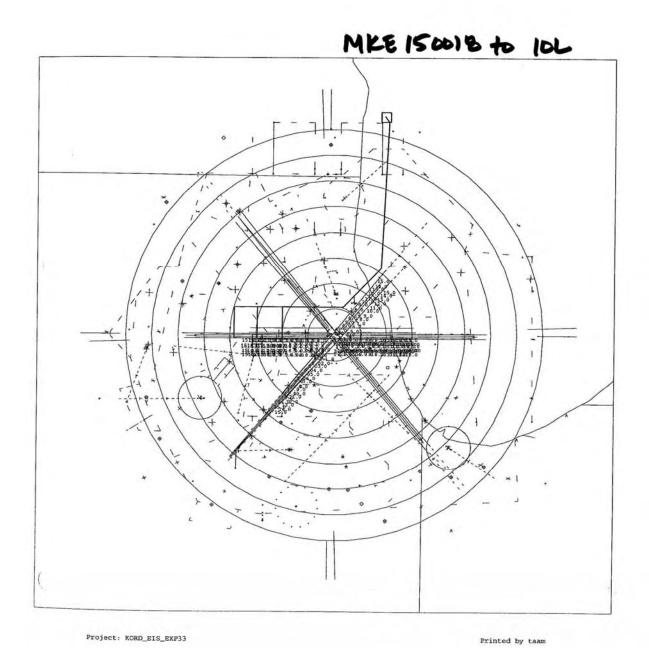
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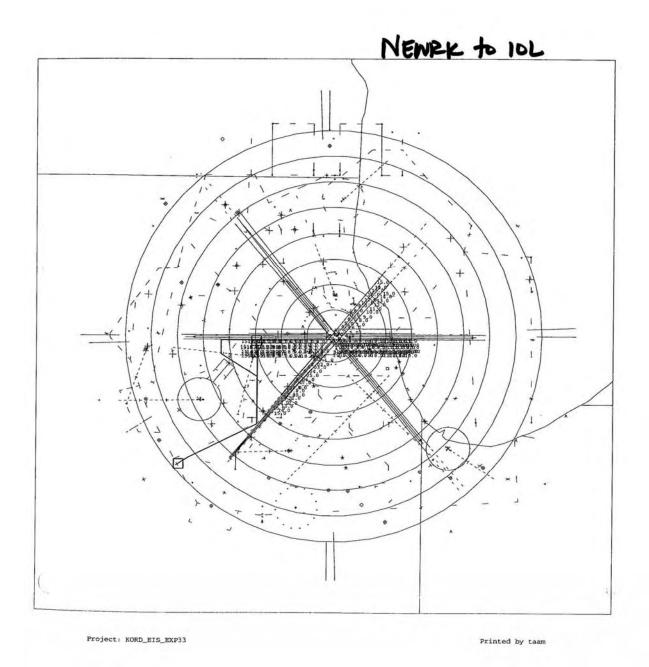
Group: Jet:	HØ	MØ	LØ	Tprop:	Н⊠	MØ	LØ	Piston:	AØ		
Display:	Н	Ma	L		Н	М	L		Α		
Point No. 1											
Point Name : MKE Altitude : 8000	150018		atitude ME:1	e : N42 41 17 None	.6		Longitu IAS: 21	ide: W087 41 10 - 250	1 29.8		
Point No. 2 Point Name : ORD5 Altitude : 8000	570	-	atitude	e : N42 40 8.	8	Longitude : W087 40 23.2 IAS : 210 - 250					
			IVIE . I	vone			IAS : 21	10 - 250			
Point No. 3 Point Name : ORD2 Altitude : 7000	ame: ORD250 Latitude: N42 11 47.8 Longitude: W087 42						2 14.2				
Point No. 4 Point Name : ORD2 Altitude : 7000	Latitude : N42 04 8.6 DME : None						Longitude : W087 52 5.9 IAS : 210 - 250				
Point No. 5 Point Name : ORD5 Altitude : 7000	69		atitude ME : N	: N42 04 9.8 None	Longitude : W088 00 23.3 IAS : 190 - 210						
Point No. 6 Point Name : ORD5 Altitude : 6000	_	atitude ME : N	: N42 04 9.0 None		Longitude : W088 14 6.2 IAS : 170 - 190						
Point No. 7 Point Name : ORD3 Altitude : 4000	83		atitude ME : N	: N41 58 1.8 None	Longitude : W088 14 8.0 IAS : 170 - 190						
Point No. 8 Point Name : ORD5 Altitude : 2200	81		atitude ME : N	: N41 58 5.9			Longitu	de : W088 03	3.3		

MKEIS ON TO TOL



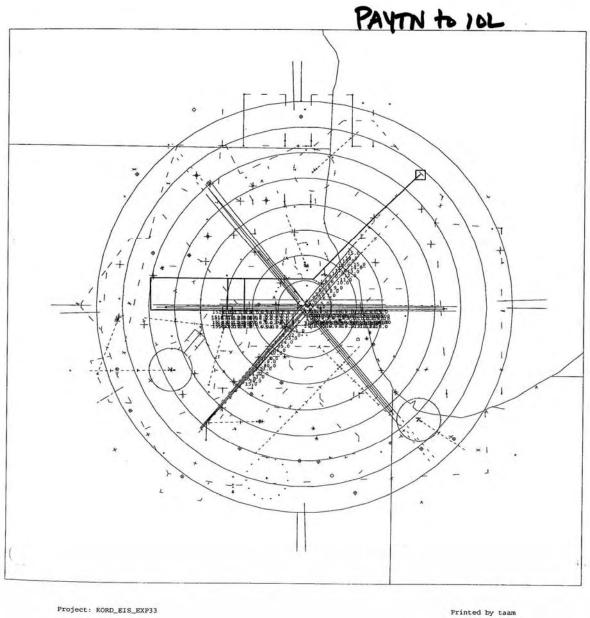
Group: Jet:	Н₫	MØ	LØ	Tprop:	HØ	MØ	LØ	Piston:	AØ		
Display:	н	Max	L		Н	М	L		Α		
Point No. 1 Point Name : NEWI Altitude : 11000	ık.		atitude	: N41 33 58 lone	.1		Longitu IAS : 21	ide : W088 3 10 - 300	4 16.0		
Point No. 2 Point Name : NEWF Altitude : 11000	K_FIX		.atitude	: N41 35 14 lone	.5		Longitu IAS : 21	ide: W088 3	1 31.0		
Point No. 3 Point Name : ORD5 Altitude : 8000	34		atitude	: N41 41 43 lone	.0		Longitude: W088 13 53.0 IAS: 210 - 250				
Point No. 4 Point Name : ORD58 Altitude : 7000	35	Latitude : N41 50 50.9 DME : None					Longitude : W088 13 53.0 IAS : 170 - 210				
Point No. 5 Point Name : ORD57 Altitude : 6000		atitude	: N41 55 30 one	.7	Longitude : W088 13 54.6 IAS : 170 - 210						
Point No. 6 Point Name : ORD38 Altitude : 5000		atitude ME : N	: N41 58 1.8 one		Longitude : W088 14 8.0 IAS : 170 - 190						
Point No. 7 Point Name : ORD58 Altitude : 2200	1		atitude	: N41 58 5.9 one			Longitu	de : W088 03	3 3.3		

NEWRY to IDL



Group: Jet:	н⊠	MΜ	LØ	Tprop:	Н⊠	MØ	LØ	Piston:	AØ		
Display:	Н	M	L		н	М	L		Α		
Point No. 1 Point Name : PAYTN Altitude : 10000			Latitude DME : N	: N42 24 40 lone	.8			ude : W087 24 10 - 250	4 35.7		
Point No. 2 Point Name : ORD571 Altitude : 10000			Latitude DME : N	: N42 23 57		Longitude : W087 25 37.1 IAS : 210 - 250					
Point No. 3 Point Name : PAPPI Altitude : 10000			Latitude DME : N	: N42 16 16. one		Longitude : W087 36 26.1 IAS : 210 - 250					
Point No. 4 Point Name : ORD250 Altitude : 9000			Latitude DME : N	: N42 11 47. one		Longitude : W087 42 14.2 IAS : 210 - 250					
Point No. 5 Point Name : ORD241 Altitude : 8000			Latitude DME : N	: N42 04 8.6 one		Longitude : W087 52 5.9 IAS : 190 - 210					
Point No. 6 Point Name : ORD569 Altitude : 7000			Latitude DME : N	: N42 04 9.8 one		Longitude : W088 00 23.3 IAS : 190 - 210					
Point No. 7 Point Name : ORD565 Altitude : 6000			Latitude DME : No	: N42 04 9.0 one		Longitude : W088 14 6.2 IAS : 170 - 190					
Point No. 8 Point Name : ORD383 Altitude : 6000			Latitude DME : No	: N41 58 1.8 one		Longitude : W088 14 8.0 IAS : 170 - 190					
Point No. 9 Point Name : ORD581 Altitude : 2200	int Name : ORD581 Latitude : N41 58 5.9						Longitude : W088 03 3.3				

PAYEN to IOL



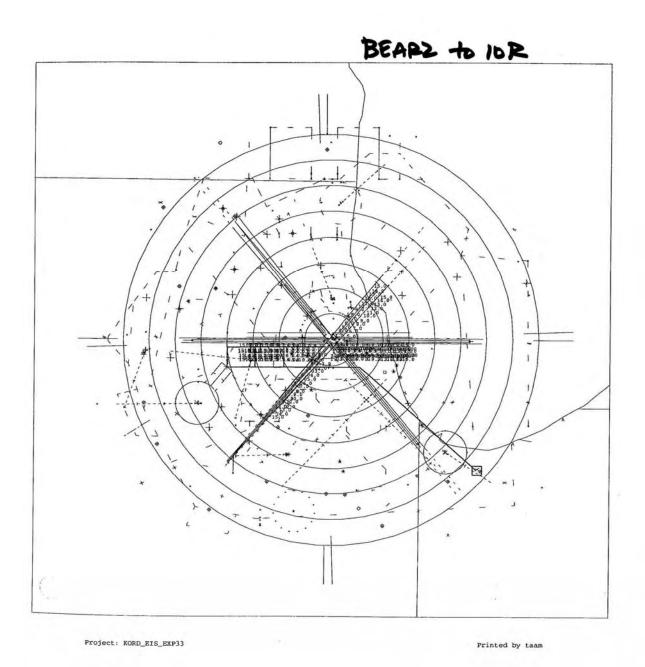
Group: Jet:	Н⊠	MØ	LØ	Tprop:	Η□	M□	Lo	Piston:	A \square
Display:	Н	ME	L		Н	М	L		Α
Point No. 1 Point Name : BEARZ Altitude : 11000			Latitude DME : 1	e : N41 33 36 None	.4			ide : W087 1 10 - 300	6 32.9
Point No. 2 Point Name : ORD580 Altitude : 11000			Latitude	e : N41 34 54 None	.5			ide : W087 1	8 31.0
Point No. 3 Point Name : ORD503 Altitude : 8000			Latitude DME : N	e : N41 53 28 None	.8		Longitu IAS:19	ide : W087 4	6 51.1
Point No. 4 Point Name : ORD529 Altitude : 7000			Latitude DME : N	: N41 53 28 None	.7		Longitu IAS:19	ide : W087 59	9 53.8
Point No. 5 Point Name : ORD579 Altitude : 5000			Latitude DME : N	: N41 53 25 None	.9		Longitu IAS : 17	de : W088 13 0 - 210	3 54.6
Point No. 6 Point Name : ORD577 Altitude : 4000			Latitude DME : N	: N41 57 20 None	0		Longitu IAS : 17	de : W088 13 0 - 210	3 54.6
Point No. 7 Point Name : ORD576 Altitude : 2200			Latitude	: N41 57 24.	0		Longitu	de : W088 02	2 25.8

BEARZ to IDR

Project: KORD_EIS_EXP33

Continue page 2

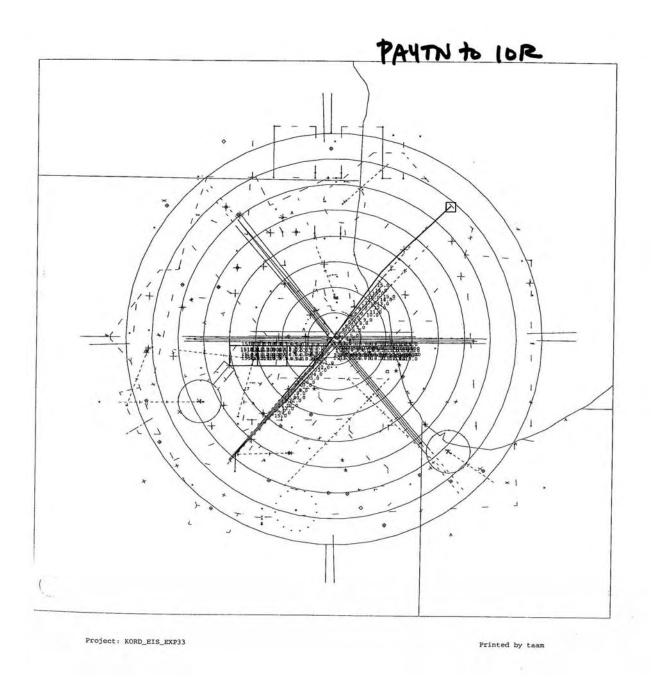
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Appendix D D-277 July 2005

Group: Jet:	HØ	MØ	LØ	Tprop:	HØ	MØ	LØ	Piston:	AØ
Display:	Н	MS	L		Н	М	L		Α
Point No. 1 Point Name : PAYTN Altitude : 10000			Latitude DME : N	: N42 24 40 lone	.8			ide : W087 24 10 - 250	35.7
Point No. 2 Point Name : ORD571 Altitude : 10000			Latitude DME : N	: N42 23 57 lone	.6		Longitu IAS : 23	ide : W087 25	37.1
Point No. 3 Point Name : PAPPI Altitude : 10000			Latitude DME : N	: N42 16 16 one	.7		Longitu IAS : 21	de : W087 36 0 - 250	26.1
Point No. 4 Point Name : ORD250 Altitude : 10000			Latitude DME : N	: N42 11 47.	.8		Longitu	de : W087 42 0 - 210	14.2
Point No. 5 Point Name : ORD529 Altitude : 7000			Latitude DME : N	: N41 53 28.	.7		Longitu IAS: 19	de : W087 59 0 - 210	53.8
Point No. 6 Point Name : ORD579 Altitude : 7000			Latitude DME : N	: N41 53 25. one	9		Longitu IAS : 17	de : W088 13 0 - 190	54.6
Point No. 7 Point Name : ORD577 Altitude : 4000			Latitude DME : N	: N41 57 20. one	0		Longitu IAS:17	de : W088 13 0 - 190	54.6
Point No. 8 Point Name : ORD576 Altitude : 2200			_atitude	: N41 57 24.	0		Longitu	de : W088 02	25.8

PAYTN to IOR



TAAM Summary Statistics for Air Quality Analysis

2018 With Project Peak Month Average Day Experiment 33 - VFR-1 Parallel 9s (Quads)

The following operational and delay-related statistics are included from TAAM simulation for the air quality analysis:

Table 1: Operations summary
Table 2: Runway use summary
Table 3: Aircraft fleet mix by runway
Table 4: Travel and Delay Times
Table 5: Unimpeded taxi times
Table 6: Fleet mix and modeled gates
Table 7: Departure runway queues

Definitions

Arrival Unimpeded Ground Travel Time: Unimpeded ground travel time from the runway exit to the gate.

Departure Unimpeded Ground Travel Time: Unimpeded ground travel time from the gate to the runway.

Arrival Taxi Delay: Delay incurred between the runway exit and the gate.

Departure Taxi Delay: Delay incurred between the time an aircraft is ready to taxi from the gate and the time the aircraft reaches the departure queue.

Arrival Standoff Delay: Time spent at a standoff position waiting for a gate to become available.

Departure Queue Delay: Delay incurred in the departure runway queue while waiting for departure clearance.

Hourly Operations: Arrival and departure operations by each hour.

Flights terminated: Number of events that did not complete the entire landing or takeoff cycle in the simulation.

Departure Gate Delay: Delay incurred at the gate due to ramp congestion at the airport.

Table 1 O'Hare Modernization Program 2018 With Project Operations Summary

Annualized Weighting of Operating Configurations

Operating Configuration VFR -1 Parallel 9s VFR -2 Parallel 27s VFR-2 Parallel 27s VFR-2 Parallel 27s IFR Parallel 19s IFR Parallel 17s IFR Parallel 27s IFR Parallel 27s
--

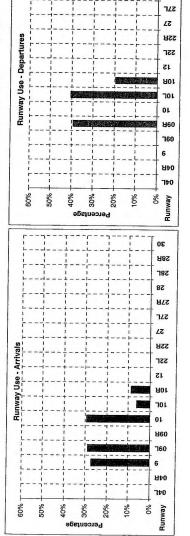
Sources: National Climatic Data Center (January 1, 1991 through December 31, 2000); Ricondo & Associates, Inc.

Totals 3,374	1,194,000	353.9
<u>Departures</u> 1,687		
Arrivals 1,687		
Peak Month Average Day Operations	Annual Operations	Design Day Ratio

DRAFT- For Discussion Purposes Only

Table 2
2018 With Project Peak Month Average Day
Runway Use
Experiment 33 - VFR-1 Parallel 9s

Runway Arrivals Departures Gran	Arrivals	Arrivals Departures	Grand Total	Runway	Arrivals	als	Arrivals Departures
				04L	0.0%		
	, !	ì	1	04R	0.0%		0.0%
	459	n	462	6	27.2%		0.2%
	485	ı	485	160	28.7%		0.0%
	1	663	663	09R	0.0%		39.3%
	495	m	498	10	29.3%		0.2%
	102	684	786	10L	6.0%		40.5%
	146	334	480	10R	8.7%		19.8%
	•	r	•	12	0.0%		0.0%
	i		•	22L	0.0%		0.0%
	1	ì	i	22R	0.0%		0.0%
	•	ı		27	0.0%		0.0%
	i	ı	,	27L	0.0%		0.0%
	,	ı		27R	0.0%		0.0%
	ı	i	1	28	0.0%		0.0%
	ı		•	28L	0.0%		0.0%
			•	28R	0.0%		0.0%
1	, ,			30	0.0%		0.0%
IOIAL	1,687	1,687	3,374	TOTALS	100.0%	=	%0.001



DRAFT

 Table 3

 TAAM Project Name: data\projects\taam\KOHD_EIS_EXP33.prj

AIRCRAFT FLEET MIX BY RUNWAY

Daily	,	lotals	443	386	9	9	22	122	. A	2	12	23	2	74	50	3 6	V	CVI	4	4	- 00	5		<u>.</u>	4	217	က	or,	o c	N I	7	က	2	ı
	Total P	Totals	220	194	က	ო	11	61	308	7	= ;	E	-	37	47	•	- ,	-	0	Ø	4	ဖ	7		N :	109	Ø	-	•	- (7 0	01	-	
	10,7		5 1	60	•		N	33	121		D (2		14	4				CΙ		Ø	-	cc) T	- ;	41	,	,				-	-	
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	Totals	223	192	1 0	o (n ;	F	61	307	10	5	1 -	- !	37	48	-	•	٠ ،	V	N	4	9	7	2	801	3 7	- (N	-	4	•	- ,	-	
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	o	57	39	3 '			. ;	21	117	က	S		•	1	4				,	. ,	N	വ	က	N	28	} -	- ,	-	-	,	,	,	_	
Arrivals	10	65	46	, ,	,	- c	V	50	98	•	•		- c	ю (ົກ	,		C	J	, ,	-	-	Ø	1	30					•	,			
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	160	75	68	N	۱ , -	- ц) <	4 (6/	7	C)		C	2 5	0 1	-	•	,	•	- ,	-	٠,	_		41	,	•	-		4	-	i I	i	
ı	AC Type	319	320	332	333	343	707	100	7.38	/44	74F	74M	763	1 20	277	BE40	BE58	C210	CARO	0000	0000	0000	06/20	CL60	CRJ	F900	FASO		45	G5	LJ30	1.145	2	

Appendix D

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	108			•	,	C	V	1	18	000	, ,	ĸ) -	- 1	•	-)	i					' C	V	,	9	1	c	7	140
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	AC Type	1.155		LJ60	M1F	739	773		CR7	CR9	A3F	E145	LJ35	F2TH	C56X	H25C	318	FA20	342	76F	380	346	D L	387	321	75F	717	Totol	<u>8</u>

Table 4 TAAM Project Name: data\porjects\taam\KORD_EIS_EXP33.prj

RANDOM SEED:

563476

KORD departures terminated: KORD arrivals terminated:

TAAM Project Name: data\porjects\taam\KORD_EIS_EXP33,prj

Runway - ALL

3 (hh:mm:ss)	DEL AY			0:00:00														0:00:00						-				
AVERAGE ARRIVAL TIMES (hh:mm:ss)		S		0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:10	0:00:16	0:00:11	0:00:12	0:00:27	0:00:13	0:00:26	0:00:31	0:00:19	0:00:18	0:00:0	0:00:19	0:00:57	0:00:14	0:00:04	0:00:13	0:00:0	0:00:0	0:00:21
AVERAGE	UNIMPEDED	TRAVEL GROUND	0:05:17	0:00:0	0:09:23	0:07:39	0:09:16	0:08:00	0:08:48	0:13:21	0:12:25	0:14:06	0:13:27	0:14:30	0:13:47	0:14:13	0:14:14	0:13:55	0:13:53	0:14:21	0:14:23	0:13:47	0:14:10	0:14:17	0:07:40	0:06:45	0:09:05	0:13:34
		Arrivals	4	0	က	N	တ	27	52	97	82	110	88	113	107	103	125	114	105	120	120	133	120	37	21	17	7	1687
		Hour	0	(CV (თ -	4	S.	91	\ ·	∞ (တ	10	Ε.	12	33	4	1	16	17	18	19	50	21	22	23	0	
		Day	<u> </u>	<u> </u>	7 ,	\ . !	<u>/</u> [17	17	1 -	<u>~ 1</u>	<u> </u>	_ !	1/	17	<u> </u>	17	17	17	17	17	17	_ !	<u> </u>	<u>/</u>	/ [82	IOTALS

TAAM Project Name: data\porjects\taam\KORD_EIS_EXP33.prj

Runway - 10R

	TOTAL	0:00:00	0:00:00	0:00:0	0:00:00	0:00:0	0:00:00	0:00:0	0:00:02	0:00:00	0:00:10	0:00:17	0:00:31	0:00:0	0:00:34	0:01:13	0:00:03	0:00:29	0:00:0	0:00:23	0:04:19	60:00:0	0:00:0	0:00:00	0:00:00	0:00:00	0:00:57
AVERAGE ARRIVAL TIMES (hh:mm:ss)	STANDOFF	0:00:00	00:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:00	0:00:0	0:00:0
ARRIVAL TII	TAXI	0:00:00	0:00:00	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:02	0:00:0	0:00:10	0:00:17	0:00:31	90:00:0	0:00:34	0:01:13	0:00:03	0:00:29	0:00:30	0:00:23	0:04:19	60:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:57
ONIMPEDED	TRAVEL GROUND	0:00:0	0:00:0	0:00:00	0:00:0	00:00:0	0:00:00	0:00:0	0:16:36	0:00:0	0:17:45	0:16:06	0:14:36	0:17:54	0:16:49	0:15:05	0:16:22	0:14:40	0:16:24	0:15:51	0:17:05	0:15:14	0:00:00	0:00:00	0:00:00	0:00:0	0:16:05
	Arrivals	0	0	0	0	0	0	0	က	0	50	-	15	-	15	23	S	1	12	16	17	7	0	0	0	0	146
	Hour	0	- (N ·	თ .	4	S.	ဖ	_	00	တ	10	Ξ	12	13	4	15	16	17	<u>~</u>	19	50	21	22	23	0	
	Day	17	17	/ !	<u> </u>	17	17	77	77	\ .	<u> </u>	17	17	17	17	17	17	17	17	17	17	17	17	17	17	18	IOTALS

TAAM Project Name: data\porjects\taam\KORD_EIS_EXP33.prj

Runway - 10

			AVERAGE	ARRIVAL TII	AVERAGE ARRIVAL TIMES (hh:mm:ss)	
Dav	Hour	Arrivale	TRAVEL COLINIA		DELAY	
17	0		0.00.0	XY C	STANDOFF	TOTAL
17	•		00:00:0	00.00.0	0.00.0	00:00:0
- 1	- 0	> 1	00:00:0	0:00:0	0:00:0	0:00:0
1 -	N	- '	0:05:07	0:00:00	0:00:0	0:00:0
- 1	. C.	0	0:00:0	0:00:0	0:00:0	0:00:00
_ !	4 1	0	0:00:00	0:00:00	0:00:0	0:00:00
<u>_</u> !	Ω	0	0:00:0	0:00:0	0:00:0	0:00:00
<u> </u>	6	N	0:10:37	0:00:0	0:00:00	0:00:0
<u> </u>	2	34	0:09:58	90:00:0	0:00:0	0:00:0
<u> </u>	Φ (28	0:10:26	0:00:18	0:00:0	0:00:18
/ [ດ	38	0:10:00	60:00:0	0:00:0	60:00:0
17	9	59	0:10:14	0:00:10	0:00:0	0:00:10
17	Ξ	28	0:11:10	0:00:59	0:00:0	0:00:59
17	12	29	0:09:47	0:00:08	0:00:0	0:00:08
17	13	37	0:10:53	0:00:26	0:00:0	0:00:26
17	4	35	0:10:14	0:00:17	0:00:0	0:00:17
17	15	37	0:10:16	0:00:19	0:00:0	0:00:19
17	16	31	0:10:31	0:00:12	0:00:00	0:00:12
17	17	34	0:10:33	0:00:16	0:00:0	0:00:16
<u>/</u> !	<u></u>	30	0:09:37	0:00:10	0:00:0	0:00:10
/ !	19	44	0:09:29	0:00:10	0:00:0	0:00:10
\ _ ·	50	4	0:10:18	60:00:0	0:00:0	0:00:0
17	23	16	0:11:34	0:00:0	0:00:0	0:00:0
/[22	Υ-	0:09:16	0:00:0	0:00:0	0:00:00
17	53	0	0:00:0	0:00:0	0:00:0	0:00:0
8 .	0	0	0:00:0	0:00:0	0:00:0	0:00:0
OIALS		495	0:10:17	0:00:14	0:00:0	0:00:14

TAAM Project Name: data\porjects\taam\KORD_EIS_EXP33.prj

Runway - 09

	TOTAL	0:00:0	0:00:00	0:00:00	0:00:00	0:00:00	0:00:00	0:00:00	0:00:13	0:00:12	0:00:11	0:00:14	0:00:18	0:00:12	0:00:13	0:00:50	0:00:21	0:00:14	0:00:32	0:00:14	0:00:33	0:00:11	0:00:02	00:00:0	00:00:0	0:00:0	0:00:18
ARRIVAL TIMES (hh:mm:ss)	STANDOFF	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:00	0:00:00	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0
ARRIVAL TII	TAXI	0:00:00	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:13	0:00:12	0:00:11	0:00:14	0:00:18	0:00:12	0:00:13	0:00:50	0:00:21	0:00:14	0:00:32	0:00:14	0:00:33	0:00:11	0:00:02	0:00:0	0:00:0	0:00:0	0:00:18
AVERAGE	TRAVEL GROUND	0:00:00	0:00:0	0:00:0	0:00:0	0:00:00	0:00:0	0:18:31	0:11:06	0:11:06	0:11:46	0:11:31	0:12:45	0:12:49	0:11:11	0:13:01	0:12:04	0:12:42	0:12:55	0:12:55	0:12:22	0:13:21	0:13:19	0:10:41	0:00:00	0:00:0	0:12:24
	Arrivals	0	0	0	0	0	0	-	22	34	21	22	34	40	22	35	32	32	38	36	38	37	∞	-	0	0	459
	Hour	o ,	- (N (. r	4 1	က	ω 1	_	ю (თ	9	-	12	13	4	15	16	17	φ :	19	50	23	22	23	0	
	Day	<u>,</u>	_ 1	- 1	<u>-</u>	<u> </u>	71	1 -	_ ;	_ !	/1	17	17	17	7.	17	71	17	17	17	<u> </u>	_!	17	/[17	81.5	OLALS

KORD ARRIVALS - Travel and Delay Times

TAAM Project Name: data\porjects\taam\KORD_EIS_EXP33.prj

Runway - 09L

	TOTAL	0:00:0	00:00:0	0:00:00	0:00:0	0:00:0	0:00:0	0:00:0	0:00:12	0:00:17	0:00:14	0:00:13	0:00:31	0.00.19	0.00.30	0:00:31	0:00:19	0.00.0	0.00.42	0:00:28	0:00:41	0:00:24	0:00:01	0.00.0	00:00:0	00:00:0	0:00:24	
TIMES (hh:mm:ss)	STANDOFF	0:00:00	0:00:0	0:00:00	0:00:00	0:00:00	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:00	0:00:00	0:00:00	0:00:00	0:00:00	0:00:00	0:00:0	0:00:0	0:00:00	0:00:00	00:00:0	00.00.0	0:00:0	
ARRIVAL TIMI		0:00:0																										
INIMPEDED	TRAVEL GROUND	00:00:0	0:00:0	0:00:00	0:00:0	0:00:00	0:00:00	0:19:00	0:17:53	0:16:47	0:18:22	0:17:40	0:18:41	0:17:53	0:19:25	0:19:20	0:18:29	0:18:46	0:18:47	0:18:54	0:18:38	0:19:20	0:18:13	0:00:0	0:00:00	0:00:00	0:18:31	
	Arrivals	0	0	0	0	0	0	8	88	23	ب ا	33	36	37	58	32	40	28	36	38	34	35	13	0	0	0	485	
	Hour	0 ,	- (N C	, C	4 1	n o	1 02	~ 0	ဘ	י מ	2 ;	Ξ:	12	13	4 :	35	16	17	<u>8</u>	6 E	50	2 5	22	23	0		
	Day	17	7 -	17	1 -	1 -	- 1	- 1	7 -	7 -	7 -	7 -	_ [_ !	<u> </u>	_ 1	1 -	<u> </u>	<u> </u>	1 -	- 1	1,	- [_ !	1	9	IOTALS	

TAAM Project Name: data\porjects\taam\KORD_EIS_EXP33.prj

Runway - 10L

(hh:mm:ss)	DELAY	11.7		0:00:00 00:00:0																					_			0:00:00
AVERAGE ARRIVAL TIMES (hh:mm:ss)				0:00:0																								0:00:0
AVERAG	UNIMPEDED	TRAVEL GROUND	0:05:17	0:00:00	0:10:32	0:07:39	0:09:16	0:08:00	0:07:07	0:00:00	00:00:0	0:00:00	0:00:0	0:00:0	0:00:00	0:00:0	00:00:00	0:00:00	0:00:00	00:00:0	0:00:00	0:00:00	0:00:00	00:00:0	0:07:26	0:06:45	0:06:02	0:07:35
		Arrivals	4 (0 (Ν (27	တ	27	20	0 (0 (0	0	0	0	0	0 (0 (0 (0 (0	0	0 (0 ;	19	17	2	102
		nor '	> 1	- (N	, C.	4 1	o c	10	~ 0	0 0 (on (2 ;		2 5	ω ;	4 1	Ω (<u>0</u> 1	<u> </u>	20 (9 C	2 2	7 6	5 55	S	0	
	1	Day 17	7 -	- 1	- 1	- 1	1 -	- 1	1 -	- 1	- 1	- 1	/ -	- 1	- 1	1 -		7 -	- 1	7 -	7 -	1 -	7 -	1 +	1 -	/-	9	TOTALS

TAAM Project Name: data\porjects\taam\KORD_EIS_EXP33.prj

Runway - ALL

	TOTAL	00:00:0	0:00:0	0:00:57	0.00.0	0:00:14	0:00:0	0:05:55	0:01:38	0:03:08	0:05:23	0:02:16	0.06.29	0:05:49	0:03:56	0:03:54	0:02:00	0:03:25	0:04:18	0:07:18	0:03:30	0:05:30	0:01:45	0.05.10	0.00.0	0:04:24
(hh:mm:ss)	DEP. QUEUE	0:00:0	0:00:0	0:00:0	0:00:00	0:00:00	00:00:0	0:00:56	0:00:23	0:00:34	0:00:20	0:00:27	0:00:29	0:00:57	0:00:48	0:00:47	0:00:52	0:00:47	0:00:56	0:00:52	0:00:48	0:01:00	0:00:30	0:02:12	0.01.56	0:00:48
AVERAGE DEPARTURE TIMES (hh:mm:ss) :DEDDEI AY		0:00:0	0:00:0	0:00:0	0:00:0	0:00:08	0:00:0	0:04:50	0:00:45	0:02:18	0:04:13	0:00:35	0:04:25	0:04:31	0:02:24	0:02:22	0:03:38	0:02:01	0:03:01	0:05:01	0:02:08	0:04:00	0:00:52	0:02:45	0:07:24	0:02:59
RAGE DEPART	GATE	0:00:0	0:00:00	0:00:57	0:00:00	90:00:0	0:00:00	60:00:0	0:00:0	0:00:16	0:00:50	0:01:14	0:01:05	0:00:21	0:00:44	0:00:45	0:00:0	0:00:37	0:00:21	0:01:25	0:00:34	0:00:30	0:00:23	0:00:13	0:00:23	0:00:37
UNIMPEDED	TRAVEL GROUND	0:05:55	0:08:27	0:09:52	0:10:24	0:08:10	0:00:0	0:09:18	0:09:43	0:09:37	0:09:26	0:10:08	0:06:20	0:10:12	0:10:57	0:09:46	0:09:52	0:10:26	0:10:47	0:10:42	0:10:41	0:09:33	0:10:22	0:11:08	0:10:01	0:10:10
	Departures	~	4	က	2	Ø	0	38	78	119	106	66	107	109	108	86	121	110	110	128	117	110	82	17	15	1687
	Hour	ο.	- (N	က	4	വ	9	_	∞ (ກ <u>:</u>	0	-	12	55	4 :	5	9 !	17	φ :	19	200	27	55	23	
	Day 11	- 1	<u> </u>	\ ! !	<u> </u>	17	_ :	<u> </u>	7.	1 -	_ !	<u> </u>	/[/[<u>-</u> !	<u>-</u> !	<u> </u>	<u> </u>	<u> </u>	<u> </u>	- !	- !	<u> </u>	7	17	TOTALS

TAAM Project Name: data\porjects\taam\KORD_EIS_EXP33.prj

Runway - 09R

			AVER	AVERAGE DEPARTURE TIMES (hh:mm:ss)	URE TIMES (1	nh:mm:ss)	
É			CINIMPEDED		0	-DELAY	*************
<u>nav</u>	Hour	Departures	TRAVEL GROUND	GATE		DEP. QUEUE	TOTAL
_ 1	ο,	0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0
- !	- '	0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0
<u> </u>	N (0	0:00:00	0:00:0	0:00:00	0:00:0	0:00:00
17	. C.	0	0:00:0	0:00:0	0:00:00	0:00:0	0:00:0
- 1	4 1	0	0:00:00	0:00:0	0:00:00	0:00:0	0:00:00
_ !	0	0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0
7 7	O I	-	0:06:26	0:00:01	0:00:00	0:00:0	0:00:01
_ !	_ (29	0:08:45	0:00:43	0:00:14	0:00:15	0:01:12
1 -	ထ (47	0:08:58	0:00:19	0:04:02	0:00:41	0:05:02
7.	ဘ	46	0:08:43	0:00:14	0:03:28	0:00:40	0.04.22
17	10	43	0:09:16	0:01:23	0:00:36	0.00.0	32:50:0
17	F	42	0:08:22	0:01:36	0.03.46	0.00.0	0.06.06
17	12	42	0:09:38	0:00:03	0.02:36	0.00.4	0.00.00
17	13	38	0:08:51	0.00.45	0.00.0	0.00.0	0.00.42
17	4	39	00:00:0	90.00.0	0.02.11	0.00.44	0:03:40
17	- T	3 6	0.00.30	0:00:50	0:02:42	0:00:32	0:03:40
1 -	Ω ;	20	0:08:20	0:00:33	0:01:10	0:00:36	0:02:19
_ !	9 !	43	0:08:40	0:00:23	0:02:25	0:00:45	0:03:33
17	17	40	0:10:13	0:00:23	0:02:20	0:00:41	0.03.24
17	<u></u>	26	0:09:35	0:00:39	0:04:36	0:00:48	0.06.03
17	19	52	0:09:24	0:00:43	0:02:49	0.00.37	00.00.0
17	50	48	0:08:55	0:00:11	0:05:16	0.00.50	0.04.03
17	2	37	0:09:59	0:00:25	0.00:34	80.00.0	0.00.0
17	22	0	0.00.0	0.00.0	0.00.0	0.00.0	12.10.0
17	23	· C	00:00:0	00:00:0	0.00.0	00:00:0	0:00:0
TOTALS	3	0 000	0:00:00	00:00:0	0:00:0	0:00:0	0:00:0
200		500	80:60:0	0:00:34	0:02:59	0:00:40	0:04:13

TAAM Project Name: data\porjects\taam\KORD_EIS_EXP33.prj

Runway - 10R

	***************************************	TOTAL	00:00:0	0:00:0	0:00:0	0:00:00	0:00:00	0:00:00	0:00:54	0:01:24	0.10.23	0.04.58	0.04.50	00.00.0	0.03.30	0:04:18	0:02:00	0:13:01	0:04:37	0:06:49	0.06:37	0.04.08	0.4.00	0:04:12	0:00:42	0:00:0	0:00:00	0:05:50
mm:ss)	4Y	COCO	0:00:0	0:00:0	0:00:0	0:00:0	0:00:00	0:00:0	0:00:08	0:00:15	0:01:20	0.00.39	0.01.31	0.00.0	4.00.0	44.00.0	41:10:0	0:01:30	0:00:20	0:01:19	0:01:01	0.01.14	0.00.0	0.00.43	0:00:11	0:00:0	0:00:0	0:00:57
AVERAGE DEPARTURE TIMES (hh:mm:ss)		0:00:00	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:46	0:00:53	0:08:28	0:01:09	0:05:53	0.00.01	0.00.0	0.04.40.0	0.01.48	0:10:57	0:02:45	0:05:13	0:01:25	0:02:29	0.01.49	1.000	0.00.0	0:00:0	0:00:0	0:03:44
GE DEPARTU	CATE	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:16	0:00:35	0:02:40	0:02:06	0:00:31	0.00.45	0.01.50	00.100	0:00:34	0:01:02	0:00:17	0:04:11	0:00:25	0:01:38	91.00.0	0.00.0	0:00:00	0:00:0	0:01:09
AVER	TRAVEL GROUND	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:00	0:13:08	0:12:34	0:13:08	0:12:13	0:13:39	0:12:18	0:14:10	0.13.26	0.00	0:12:31	0:14:00	0:12:53	0:14:23	0:14:49	0:13:01	0.13.10	00000	0.22:02	0:00:00	0:13:19
		0	0	0	0	0 (0 (o (n (0 1	56	22	18	26	33	19	33	2 1	22	26	23	22	20	12		- 0	0 70	334
	Hour Departures	0	, . .	CV C	m -	4 r	Ω (d	0 1	~ 0	0 0	ָ ת	10	-	12	13	14	Ť.	2 4	1 0	<u> </u>	χ (<u> </u>	20	21	22	20	23	
	Day	17	/ 1	<u> </u>	7 -	- 1	- +			1 -	1 -	_ :	17	17	17	17	17		- 1	- 1	1 -	_ !	17	17	17	17	TOTALS	0 VE

Appendix D

TAAM Project Name: data\porjects\taam\KORD_EIS_EXP33.prj

Runway - 10L

		TOTAL	0:00:0	0:00:0	0:00:57	0:00:0	0:00:14	0:00:0	0:08:20	0:02:07	0:02:03	0.02.58	0.00.41	0.05.40	0.00.0 Reserved	0.03.51	0.00.0	0.00.0	0.000	0.02.30	0.00.0	0.60.0	0.02.23	0.04:38	0:02:23	0:05:52	0:09:43	0:03:52
::mm:ss)	ΑΥ	DEP. QUEUE	0:00:0	0:00:0	0:00:0	0:00:00	0:00:00	0:00:00	0:01:19	0:00:33	0:00:35	0:00:41	0:00:51	0.00.59	0.00.58	0:00:54	0.00.7	0.00.42	0.00.47	0.00.55	0.00.51	0.00.0	0.00.0	0.00.00	0:00:38	0:02:30	0:01:56	0:00:20
AVERAGE DEPARTURE TIMES (hh:mm:ss)	DEI AY	TAXI DE	0:00:0	0:00:0	0:00:0	0:00:0	0:00:08	0:00:0	0:06:49	0:01:07	0:01:16	0:05:00	0:00:12	0:04:26	0:02:43	0:02:15	0:02:20	0:00:47	0.01.13	0:05:06	0:07:16	90.100	0.03.42	20.50.0	22.10.0	0:03:07	0:07:24	0:02:37
RAGE DEPART		GATE	0:00:00	0:00:0	0:00:57	0:00:0	90:00:0	0:00:0	0:00:12	0:00:27	0:00:12	0:00:17	0:00:08	0:00:15	0:00:34	0:00:42	0:00:28	0:00:22	0:00:36	0:00:15	0:00:54	0:00:27	0:00-21	00.00.0	22.00.0	ST:00:0	0:00:23	0:00:25
AVE	UNIMPEDED	TRAVEL GROUND	0:05:55	0:08:27	0:09:52	0:13:04	0:08:10	0:00:00	0:09:14	0:09:40	0:09:02	0:00:10	0:09:54	0:09:42	0:09:27	0:10:14	0:08:57	0:09:02	0:10:14	0:09:57	0:10:11	0:10:07	0:08:35	0.00.49	00:00:00	07.10.20	10:01:0	0:09:36
}		Departures T	-	4	თ -	- 1	0	0	27	40	52	34	34	47	41	37	40	39	41	43	48	43	41	36	, L) L	2 :	684
		Hour	0 -	- (N C	, C	4 r	o 0	1 0	~ c	ο (o	9	÷	12	13	4	15	16	17	8	9	20	21	00	1 0	S	
٠		Day	1 ~		- 1	7 -	11	- 1	- 1	- 1	- 1	<u> </u>	/1	17	17	17	17	17	17	17	17	17	17	17	17		C TO L	OLAES

TAAM Project Name: data\porjects\taam\KORD_EIS_EXP33.prj

Runway - 10

			AVEF	AGE DEPART	TURE TIMES (hh:mm:ss)-	h:mm:ss)	
Day	Hour	Departures	TRAVEL GROUND	CATE	\Box		
17	0	C	00:00:0			DEP. QUEUE	TOTAL
17	•	0 0	00:00:0	0.00.00	00:00:0	0:00:0	0:00:0
	- c	> 0	00:00:0	0:00:0	0:00:0	0:00:0	0:00:0
- 1	V	> ,	0:00:00	0:00:0	0:00:0	0:00:0	0:00:00
- 1	· 0	-	0:07:45	0:00:0	0:00:0	0:00:00	0:00:0
7 - 4	4 1	0	0:00:00	0:00:0	0:00:0	0:00:00	0:00:00
1 -	ဂ	0	00:00:0	0:00:0	0:00:0	0:00:00	0:00:0
	1 02	0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:00
	,	0	0:00:0	0:00:0	0:00:0	00:00:00	0:00:00
- 1	∞ (0	0:00:0	0:00:0	0:00:0	0:00:00	0:00:0
_ !	ָּס	0	0:00:0	0:00:0	0:00:00	0:00:00	0.00.0
17	10	0	0:00:0	0:00:0	0:00:00	00.00.0	00:00:0
17	-	0	0:00:00	0:00:00	0:00:00	00.00.0	00:00:0
17	12	0	0:00:0	0:00:0	00.00.0	00:00:0	0.00.0
17	13	0	0:00:0	0.00.0	0.00.0	00:00:0	0.00.0
17	14	0	00:00:0	00.00.0	00:00:0	0.00.00	0:00:0
17	7.	C	00:00:0	00.00	0.00.00	00:00:0	0:00:0
1	2 4	0 0	0.00.0	00:00:0	0:00:0	0:00:0	0:00:0
- 1	7 -	> 1	00:00:0	0:00:00	0:00:0	0:00:0	0:00:0
- 1	- 0	- ,	0:14:55	0:05:26	0:11:38	0:01:19	0:18:23
- 1	0 0	- (0:14:04	0:05:26	0:02:46	0:00:28	0:08:40
- +	2 6	o (0:00:00	0:00:0	0:00:0	0:00:0	0:00:00
	200	0 (0:00:0	0:00:0	0:00:0	0:00:0	0:00:00
	7 6	0	0:00:00	0:00:0	0:00:0	0:00:0	0:00:00
7 -	7 8	0	0:00:00	0:00:0	0:00:0	0:00:0	0:00:0
VI VICT	23	0 (0:00:00	0:00:0	0:00:0	0:00:00	0:00:0
OFALS		n	0:12:14	0:03:37	0:04:48	0:00:35	0:00:00

TAAM Project Name: data\porjects\taam\KORD_EIS_EXP33.prj

Runway - 09

111111111111111111111111111111111111111	TOTAL	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:00	0:00:00	0:00:0	0:00:0	0:00:00	0:00:0	0:00:00	0:00:00	0:00:0	0:00:0	0:01:36	0:00:0	0:00:0	0:00:00	0:17:16	0:00:00	0.00.0	0.00.00	0:06:17
S (hh:mm:ss)	DEP. QUEUE	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:00	0:00:00	0:00:00	0:00:00	0:00:00	0:00:00	0:00:00	0:01:36	0:00:0	0:00:0	0:00:0	0:17:09	0:00:0	0:00:00	0:00:0	0:06:15
AVERAGE DEPARTURE TIMES (hh:mm:ss)	TAXI		0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:00	0:00:05
RAGE DEPART	GATE	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:00	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0	0:00:0
UNIMPEDED	TRAVEL GROUND	0:00:00	0:00:0	0:00:0	0:00:0	0:00:00	0:00:0	0:00:00	0:00:00	0:00:00	0:00:00	0:00:0	0:00:0	0:00:0	0:00:00	0:00:00	0:00:0	0:06:23	0:00:0	0:00:0	0:00:0	0:11:04	0:00:00	0:10:43	0:00:00	0:09:23
	Departures	0	0	0	0	0	0 (0 (0 (O (0	0	0	0	0	0	0	•	0 (0 (0	-	0	-	0	က
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Table 5 TAAM Project Name: data/projects.taam/KORD_EIS_EXP33.prj

ORD Arrivals Unimpeded Taxi-In Times - Arrival Runway to Gate

Unimpeded Taxi-In Times (HH:MM:SS)

Terminal B1	TERMINAL	GATE	#	9 AVG	TOTAL	#	09L AVG	TOTAL	#	10 AVG	TOTAL	#	10L AVG	TOTAL	#	10R AVG	TOTAL	# W	ALL RUNWAYS AVG TO	YYS TOTAL
1	Ferminal 1	18	-	0:18:56	0:18:56	c	0:24:18	0.48:36	4	0.45.0	4.00.40	c	00.00.0	00.00		2000		,		
1	erminal 1	B10		0:14:09	0:14:09	0	0.51.26	0.49.59	-	0.11.0	0.47.45	0 0	0.00.00	0:00:00	- (0.20.41	0:20:41	00	0:18:33	2:28:31
B12	erminal 1	B11	က	0:14:48	0:44:25	10	0.21.15	0.42.30	+ +	0.11.00	0.47.40	0 0	00:00:0	0:00:00	0 0	0:00:00	0:00:0	_	0:14:58	1:44:46
Heart 1 0.18.33	erminal 1	B12	63	0:15:18	0.45.55	ı e	0.21.05	1.03.17		11.11	0.11.14	o 0	0.00.00	0:00:0	0	0:00:00	0:00:0	9	0:16:26	1:38:39
1	erminal 1	B14		0.13.34	0.13.34	0 0	0.00.00	4.00.1	- ,	10.1	4	0	00:00:0	00:00:0	0	0:00:0	0:00:00	7	0:17:12	2:00:26
1	erminal 1	B16	-	0.15.28	0.17.0	0 0	0.00.00	0.00.00		0.11.24	0:11:24	0	0:00:0	0:00:0	0	0:00:0	0:00:0	ß	0:17:27	1:27:16
Fig. 1	erminal 1	B17	- C	0.00.00	02:00:00	o c	0.00.00	0.00.00	- (10:11:0	10:11:0	-	0:08:05	0:08:05	0	0:00:0	0:00:0	တ	0:11:31	0:34:34
1	erminal 1	, a	7	0.00.00	0.00.00	v	0.18:44	0.39.29	ь.	0:00:0	0:00:0	-	0:07:25	0:07:25	0	0:00:0	0:00:0	က	0:15:38	0:46:54
1	erminal 1	B 10	- 0	0.18.40	0.18.03	,	0.24:12	1.12.36	- 1	0:14:43	0:14:43	0	0:00:0	0:00:0	N	0:20:53	0:41:46	^	0:21:09	2:28:08
1	erminal 1	2 28	V C	0.00.00	0.00.00	- 0	0.24:14	0:24:14	0	0:00:0	0:00:0	0	0:00:0	0:00:0	8	0:20:56	0:41:53	0	0:19:56	1:39:44
1	erminal 1	B 20	0 0	0.00.00	0,00,00	N C	0.23:36	0:47:13	0	0:00:0	0:00:0	-	0:11:09	0:11:09	7	0:20:18	0:40:36	ιΩ	0:19:47	1:38:58
1	erminal 1	B21	9 0	0.18:00	0:54:00	N C	0:23:48	0:47:36	01	0:14:18	0:28:35	0	0:00:0	0:00:0	0	0:00:0	0:00:00	7	0:18:35	2:10:11
1.5 1.5	arminal 1	B22	0 0	0.00.00	0.53:42	,	0:23:40	1:11:02	-	0:14:11	0:14:11	0	0:00:0	0:00:0	8	0:20:21	0:40:42	0	0:19:57	2:59:37
1	rminal 1	B3	0	0.00.00	00:00:0	4 (0.23:53	1:35:32	-	0:14:22	0:14:22	0	0:00:0	0:00:0	-	0:20:36	0:20:36	9	0:21:45	2:10:30
1	rminal 1	2 2	· •	0.00.00	0:00:00	n (0:23:00	1:09:02	-	0:13:29	0:13:29	0	0:00:0	0:00:0	2	0:19:30	0:39:00	9	0:20:15	2:01:31
1	rminal 1	2 2		0.15.22	4.07.00	n (0:22:40	1:08:01	4	0:13:21	0:53:26	0	0:00:0	0:00:0	0	0:00:0	0:00:0	00	0:17:06	2:16:49
1	rminal 1	S B	+ c	0.10.17	60:00:0	0	0.22.15	1:06:45	-	0:12:58	0:12:58	0	0:00:0	0:00:0	0	0:00:0	0:00:0	æ	0:18:06	2:24:52
1	rminal 1	2 2	u c	0.00.00	0:28:49	n (0:22:13	1:06:40	m	0:12:35	0:37:46	0	0:00:0	0:00:0	0	0:00:0	0:00:0	89	0:16:46	2:14:15
1	rmina 1	2 0	0	00:00:0	00:00:0	· m	0:22:02	1:06:07	N	0:12:32	0;25:03	0	0:00:0	0:00:0	-	0:18:43	0:18:43	9	0:18:18	1:49:53
1	ining i	20 00	ν.	0:15:39	0:31:17	4	0:21:35	1:26:22	N	0:12:18	0:24:37	0	0:00:0	0:00:0	-	0:18:31	0:18:31	0	0:17:51	2.40.47
C10 3 0.11-25 0.11-25 0.11-25 0.11-25 0.11-25 0.11-25 0.11-25 0.11-25 0.11-25 0.11-25 0.11-25 0.11-25 0.11-25 0.11-25 0.11-25 0.11-25 0.11-25 0.01-25<	meinel 1	n c		0:14:20	0:14:20	-	0:21:39	0:21:39	ო	0:12:23	0:37:08	0	0:00:0	0:00:0	N	0:18:19	0:36:38	7	0:15:40	1.49.45
C11 F (1) (1) (1) (2) (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	rminal 1	5 6	, 0	0:11:25	0:34:16	ın ı	0:17:58	1:29:51	4	0:08:28	0:33:50	-	0:05:46	0:05:46	0	0:00:0	0:00:0	13	0:12:35	2:43:43
C12 9 071559 171594 1 072255 0.0555 0.05159 0.10159 0.1024 0 0.00150 0.00250	rminal 1	2.5	- 1	0:11:45	0:11:45	Ν.	0:19:03	0:38:07	က	0:09:32	0:28:36	-	0:07:07	0:07:07	-	0:15:45	0:15:45	00	0:12:40	1:41:20
C15 P. 000000 C000000 P. 01244 C02332 S 0.18168 Ordered to C00000 C000000 C000000 C000000 C000000 <td></td> <td>5 6</td> <td>o.</td> <td>0:15:59</td> <td>1:19:54</td> <td>-</td> <td>0:22:25</td> <td>0:22:25</td> <td>4</td> <td>0:12:55</td> <td>0:51:38</td> <td>-</td> <td>0:10:38</td> <td>0:10:38</td> <td>0</td> <td>0:00:0</td> <td>0:00:0</td> <td>+</td> <td>0-14-57</td> <td>9.44.35</td>		5 6	o.	0:15:59	1:19:54	-	0:22:25	0:22:25	4	0:12:55	0:51:38	-	0:10:38	0:10:38	0	0:00:0	0:00:0	+	0-14-57	9.44.35
C15	minal 1	2 5	~ 0	0:11:41	0:23:23	on -	0:18:58	0:56:55	-	0:09:56	0:09:50	0	0:00:0	0:00:00	-	0:15:42	0:15:42	_	0:15:08	1:45:56
C17 1 014441 014441 1 021459 023657 0 000000 0 000000 1 006453 0 006453 0 C175 1 014441 014441 1 021459 023159 0 000000 0 000000 0 000000 0 000000 0 C12 1 014441 014441 1 021459 0 C12459 0 000000 0 000000 0 000000 0 C12 1 014441 014441 1 021459 0 C12459 0 000000 0 000000 0 000000 0 C12 1 014441 014441 1 021459 0 C12459 0 C14459 0 C144	minal 1	2 5	0	00:00:0	0:00:0	-	0:22:14	0:22:14	4	0:12:43	0:50:53	0	0:00:0	0:00:0	-	0:18:54	0:18:54	9	0:15:20	1:32:01
C17 C174-41	minal t	2 5	9	0:00:00	0:00:0	N	0:18:28	0:36:57	0	0:00:0	0:00:0	-	0:06:53	0:06:53	0	0:00:00	0:00:0	e	0:14:36	0.43.50
C18 1015:06 0.4500 1 0.18400 1 0.1806 0.18050 0.0000	minal I	25	- 1	0:14:41	0:14:41	-	0:21:59	0:21:59	0	0:12:51	0:25:42	0	0:00:0	0:00:00		0:18:44	0:18:44	LC)	0.16-13	1.21.06
C19 3 011536 0.45457 3 0.21443 1.0509 3 0.1202 0.38066 0 0.0000 0.0	I Fillian	8 2	- 1	0:14:00	0:14:00	-	0:18:06	0:18:06	0	0:00:0	0:00:0	0	0:00:0	0:00:00	0	0:00:00	0:00:00	0	0.16.03	0.35.06
C2 3 0.10.37 0.31.51 3 0.17.56 0.08.45 2 0.0900 0.17.59 1 0.05.59 0.0	minal 1	200	en (0:15:06	0:45:17	က	0:21:43	1:05:09	က	0:12:02	0:36:06	0	0:00:0	0:00:00	0	0:00:00	0:00:0	0	0:16:16	2.26.32
C20 U 02000 U	mina i	2 62	, c	0:10:37	0:31:51	m	0:17:55	0:53:45	2	0:60:0	0:17:59	-	0:05:59	0:05:59	က	0:14:36	0:43:49	2	0:12:46	2.33.23
C22 1 0.12:12 0.12:12 0.12:12 0.21:29 0.42:58 4 0.12:10 0.48:40 0 0.00:00 0.00:00 0 0.	minal 1	C SS	0	0:00:0	0:00:0	-	0:19:16	0:19:16	23	0:09:36	0:19:13	0	0:00:0	0:00:00	N	0:15:59	0:31:58	ıc	0.14.05	1.10.97
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Terminal CG CG CG CG CG CG CG C	TERMINAL	GATE	#	9 AVG	TOTAL	#	09L AVG	TOTAL	*	10 AVG	TOTAL	#	10L AVG	TOTAL	*	10R AVG	TOTAL	#	ALL RUNWAYS AVG TO	AYS TOTAL
C33 2 (1725) C (1725)	Terminal 1	బ	8	0:10:49	0:21:38	5	0:18:05	1:30:27	4	0.08:51	0.35.23		0.08-10	0.08.10	•	0.44.47	0.44.47	ç	1	10.04.0
C31 2 C17229 C18229	Ferminal 1	C30	က	0:13:09		-	0:19:50	0:19:50	0	0.10.18	0.30.54	- c	0.00.0	0.00.0	- ,	4.4.0	0.14:47	200	76:21:0	2:48:25
CAST C 1010-47 C 1	Ferminal 1	C31	2	0:12:29		-	0:19:28	0:19:28	4	0:10:28	0.41.53	0 0	0.00.0	00:00:0	- 0	0.18.00	0.00.0	0 0	0.13.20	1.40.41
Colorary Colorary	erminal 1	C32	2	0:12:16		Ŋ	0:19:34	1:37:51	-	0:10:05	0:10:05	0	00:00:0	00.00.0	1 0	0.00.00	0.00.00	οα	0.18.00	0.40.0
CG 1 (1)1588 1 (2)	erminal 1	2	-	0:10:47	0:10:47	9	0:18:04	1:48:26	0	0:00:0	0:00:00	-	0:05:52	0:05:52	-	0:14:46	0.14.46	ο σ	0.15.35	9.10.51
OF 3 OF 1/12/16/8 OF 2/12/16/8	erminal 1	S	-	0:15:38	0:15:38	7	0:22:52	2:40:09	0	0:00:00	00:00:0	0	0:00:00	0:00:0		0.00.0	0.00.0	ο α	0.51.58	0.55.47
CV 2 CV (154)	erminal 1	90	က	0:12:05	0:36:16	ო	0:18:38	0:55:56	က	90:60:0	0:27:19	-	0:06:43	0:06:43	0	0:00:00	0:00:0	5	0.12.37	2:00:4
Column C	erminal 1	5	N	0:16:43	0:33:26	2	0:22:52	0:45:45	N	0:13:23	0:26:46	N	0:10:50	0:21:41	-	0:19:36	0.19:36	σ.	0.18:21	9.97.17
1 11,000 10,00	erminal 1	80	-	0:11:41	0:11:41	7	0:18:58	0:37:57	4	0:09:28	0:37:53	n	0:02:03	0:21:09	٠,	0.15.40	0.31.21	5	0.11.40	2.20.04
Fig. 0.00000 0.000	erminal 1	60	-	0:15:03	0:15:03	က	0:22:39	1:07:59	Ŋ	0:13:15	1:06:17	0	0:00:0	00.00.0	1 -	0.19.24	0.10.04	4 5	0.18.50	0.40.40
E10 0	erminal 2	П	က	0:18:01	0:54:04	-	0:24:36	0:24:36	0	0:00:00	0:00:00	-	0:11:57	0.11.57	- c	0.00.00	0.00.0	2 4	20.01.0	4.90.43
Fig. 1 0 000000 000000 0 000000 0 000000	erminal 2	E10	0	0:00:0	0:00:0	0	0:00:00	0:00:0	9	0:09:55	0:59:33	c	0.00.0	0.00.0	,	0.45.00	0.000	1 0	0.10.07	100.00
E12 0	erminal 2	E11	0	0:00:0	0:00:0	-	0:17:44	0:17:44	0	0:00:0	0.00.0	0	0.00.0	00.00.0	- c	0.00.00	0.00.00		25.00	1.10.02
Fig. 1 2 0.10224 0.00247 3 0.17440 0.00240 0.00000		E12	0	0:00:0	0:00:0	0	0:00:0	0:00:0	9	0:09:45	0:58:32	,-	0.08.05	0.00.0	- 0	0.00.00	0.00.00	- 0	0.00.5	4.17.94
E14 1 0710380 0710330 0710330 0710340 0710330 0710330 0710340 0710330		E13	7	0:10:24	0:20:47	က	0:17:40	0:53:00	0	0:00:00	0:00:00	0	00.00.0	0.00.00	- c	0.00.00	00.00.0	0 4	0.00.00	1.10.04
Fig. 2		E14	-	0:10:39	0:10:39	4	0:18:10	1:12:40	2	0:09:45	0:19:29	2	0:05:52	0:11:44	-	0.14:38	0.14.38	5 0	0.19.55	2.00.4
EA 2 0.1184.0 0.565.8 0.00000<		E15	0	0:00:0	0:00:0	8	0:17:51	0:35:42	0	0:00:0	0:00:0	0	0:00:00	0:00:00	٠ ،	0.14:33	0.59.0	5 4	0.18.10	4.04.40
EAA 9 (1184) 0.5858 1 (22421) 0.2421 0.01630 0.00000 0	erminal 2	E2	2	0:19:24	0:38:48	0	0:00:0	0:00:0	2	0:15:36	0:31:12	0	0:00:0	0:00:00	-	0:21:00	0:21:00	r uc	0.18.10	1.31.00
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E4 2 0.16820 0.033.44 0 0.000.00 0.040.00 0.000.00 0.040.00	erminal 2	n i	2	0:19:19	0:38:38	-	0:24:21	0:24:21	-	0:16:24	0:16:24	01	0:11:58	0:23:56		0:20:22	0:50:55	^	0.17.40	2.03.41
EV 1 (1) 183-9 0375-7 1 (1) 183-9 0375-7 1 (1) 183-9 0375-7 1 (1) 183-9 0375-7 1 (1) 183-9 0375-7 1 (1) 183-9 0375-7 1 (1) 183-9 0375-7 1 (1) 183-9 0375-7 1 (1) 183-9 0375-7 1 (1) 183-9 0375-7 0 (1) 183-9 0375-7 0 (1) 183-9 <th< td=""><td>erminal 2</td><td>4 5</td><td>CV (</td><td>0:16:52</td><td>0:33:44</td><td>0</td><td>0:00:0</td><td>0:00:0</td><td>က</td><td>0:14:49</td><td>0:44:27</td><td>0</td><td>0:00:0</td><td>0:00:00</td><td>0</td><td>0:00:0</td><td>0:00:0</td><td>- 10</td><td>0:15:38</td><td>1.18.11</td></th<>	erminal 2	4 5	CV (0:16:52	0:33:44	0	0:00:0	0:00:0	က	0:14:49	0:44:27	0	0:00:0	0:00:00	0	0:00:0	0:00:0	- 10	0:15:38	1.18.11
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F12 0 0.000000 0.00000 0.00000 0.00000	Similar 2		m :	0:10:31	0:31:33	0	0:00:0	00:00:0	0	0:00:0	0:00:0	-	0:04:39	0:04:39	0	0:00:0	00:00:0	4	0.08-03	0.36-12
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F4 0 000100 0.000100 0	erminal 2	F3D	ı uc	0.11.34	0.57.49	10	0.10.00	0.37.70	0 0	0.00.00	72.82.0	o 0	0:00:00	0:00:0	-	0:15:41	0:15:41	œ	0:13:11	1:45:28
F5	erminal 2	F4	0 0		0:00:00	1	0.19.07	0.10.07	V T	0.09.22	0.10:44	> c	0:00:00	0:00:0	- (0:15:34	0:15:34	9	0:12:58	2:09:48
F6 0.000:00 0	rminal 2	F5	0		0:00:00	- 0	0.00.0	0.00.00	+ a	0.00.40	1.13.10	0 0	00:00:0	0:00:0	Ν,	0:15:48	0:31:37	_	0:12:51	1:30:00
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F8 3 0:12:26 0:37:19 0 0:00:00 0:00:00 2 0:08:02 0:16:04 0 0:00:00 0 0:00:00 0:06:00 5 0:00:00 0 0:00:00 0 0:00:00 0 0:00:00 0 0:00:0	rminal 2	F7	0		0:00:00	0 0	0.00.00	00.00.0	o	0.00.0	0.00.67	- 0	0:05:44	0:05:44		0:13:44	0:13:44	O	0:08:50	0:44:13
F9 3 0:1047 0:32:21 0 0:00:00 0:00:00 0 0:00:00 1 0:00:00 1 0:00:00 0 0:00:00 0 0:00:00 1 0:00:00 1 0:00:00 0 0:00:00 1 0:00:00 0:00:00 0:00:00 0 0:00:00 0 0:00:0	irminal 2	F8	e		0.37.19	0	0.00.0	00:00:0	- 0	0.00.0	0.00.07	0 0	00:00:0	0:00:0		0:12:10	0:15:10	2	0:12:03	0:24:07
FE-1 2 0:15:28 0:30:56 1 0:22:43 0:22:43 2 0:07:00 0:11:19 8 0:08:07 1:05:00 0 0:00:00 13 0:10:13 FE-10 2 0:19:22 0:38:43 0 0:00:00 0:00:00 0 0:00:00 0:00:00 13 0:10:13	rminal 2	F 6	, m		0:32:21	0 0	0.00.00	0.00.00	V C	0.00.0	0.00.00	> +	0:00:00	0:00:0	0 (0:00:00	0:00:0	ດ	0:10:40	0:53:23
FE-10 2 019-22 038-43 0 0:00:00 0:00:00 0 0:00:00 0 0:00:00 0:00:0	uth Cargo	FE-1	2		0.30.55	, -	0.55.43	0.55.49	0 0	0.00.00	0.00.00	- 0	0:04:55	0:04:56	0	0:00:0	0:00:0	4	0:09:19	0:37:17
	uth Cargo	FE-10	1 2		0:38:43	- 0	0:00:00	0.00.00	4 0	0.00.00	00.00.0	נו מ	0:08:07	1:05:00	0 0	0:00:00	0:00:0	13	0:10:13	2:12:57

TERMINAL	GATE	*	9 AVG	TOTAL	#	09L AVG	TOTAL	#	10 AVG	TOTAL	#	10L AVG	TOTAL	#	10R AVG	TOTAL	# B	ALL RUNWAYS AVG TO	YS TOTAL
South Cargo	FE-11	0	0:00:00	0:00:00	0	0:00:00	0.00.0	c	00.00.0	0.00.00		0.44.04	0.44.0		00.00.0	00.00			
South Cargo	FE-2	0	0:00:0	00:00:00	-	0:22:04	0.22.04	0 0	0.00.0	00.00.0	† u	0.07.47	0.39:60	0 0	00:00:0	00:00:0	4 (0:11:01	0:44:05
South Cargo	FE-3	0	0:00:0	0:00:00	0	0:00:00	00:00:0	0 0	0.00.0	00.00.0	, -	0.07.56	0.30.30	0 0	0.00.00	00:00:0	۰ م	01:01:0	20:10:1
Terminal 3	G10	-	0:11:24	0:11:24	N	0:18:44	0:37:28	,	0.09.15	0.00.0	- c	00.00.0	00.00.0	> +	0.00.00	0.00:00	- ı	00.70.0	0:07:56
Terminal 3	G11	7	0:11:51	0:23:41	က	0:19:11	0:57:34	4	0.00-39	0.38.34	0 0	00.00.0	0.00.00	- ,	0.10.24	0.13.24	ח מ	0.14:42	1:13:31
Terminal 3	G12	0	0:00:0	0:00:00	n	0:18:49	0:56:27	0	0.09-18	0.18:37	0 0	00:00:0	00:00:0		0.10.00	0.15.55	2 0	0.10.34	2:15:44
Terminal 3	G14	8	0:11:02	0:22:05	CI	0:18:20	0:36:41	מו	0:08:50	0.44.12	0 0	0.00.0	0.00.00	- c	0.00.00	0:00:00	0 0	0.15:05	1:30:34
Terminal 3	G14A	-	0:11:08	0:11:08	-	0:18:26	0:18:26	9	0:08:56	0:53:34	0 0	0.00.0	00.00.0	> -	0.00.00	0.00.00	n c	0.11.20	42.38
Terminal 3	G15	0	0:00:0	0:00:0	0	0:00:0	0:00:00	2	0:09:31	0:19:01	0	0.00.0	00.00.0	- c	0.00.00	0.00.00	D C	00:00:00	0.30.10
Terminal 3	G16	2	0:10:41	0:21:22	2	0:17:42	0:35:25	1 0	0:08:28	0.16.58	0 0	0.00.0	00.00.0	0 0	00.00.0	00:00:0	N C	0:00:00	10:61:0
Terminal 3	G17	2	0:12:41	0:25:22	•	0:18:51	0:18:51	1 4	0.09-21	0.37.05	·	0.00.00	0.00.0	0 0	0:00:00	0:00:00	0 0	71:21:0	1:13:43
Terminal 3	G18	0	0:00:0	0:00:00	ທ	0:17:49	1:29:06		0.08.18	0.16.37	- c	00.00.00	0.04.00	0 0	00:00:0	0:00:00	00 1	0:10:44	1:25:54
Terminal 3	G19	0	00:00:0	00:00:0		0.19.01	0.38.03	10	0.00.0	0.00	0 0	0.00:00	0:00:0	5 0	0:00:00	00:00:0	_	0:15:06	1:45:43
Terminal 3	G19A	-	0:11:26	0:11:26	-	0:18:40	0.18:40	1 (0.00.0	0.00	0 0	0.00.00	0.00.00	٥.	0:00:00	00:00:0	4	0:14:03	0:56:14
Terminal 3	G1A	4	0:12:31	0:50:04	· cr	0.19.51	0.50.33	, -	0.70.01	0.00.40	0 0	0.00:00	0:00:0	4 (0.15:32	1:02:08	2	0:12:19	2:27:59
Terminal 3	G1B	-	0:12:37	0.12:37	0	0.10.52	0.30.44	- u	70.01.0	0.10.21	0 0	00:00:0	00:00:0	0	0:00:0	0:00:0	ω	0:14:59	1:59:58
Terminal 3	G20	m	0:11:04	0.33-11	1 4	0.18.22	1.19.00	, ,	0.00.0	0.52.04	۰ د	0:00:00	0:00:0		0:16:38	0:16:38	0	0:13:27	2:01:03
Terminal 3	G21	c	0.00.0	00.00.0		0.10.24	0.10.50	u c	0.00.0	54:71:0	- (0:04:09	0:04:09	0	0:00:0	0:00:00	9	0:12:51	2:08:31
Terminal 3	G2A	0	0.15.04	0.54.00	- c	42.01.0	0.19.24	0 0	60.60.0	0.54:54	0	0:00:0	0:00:0	-	0:15:38	0:15:38	œ	0:11:14	1:29:56
Terminal 3	GOR	1 -	0.11.6	0.44.00	4 0	0.19.22	0.38.44	,	0:09:52	0:29:35	0	0:00:0	0:00:0	-	0:16:03	0:16:03	80	0:13:33	1:48:30
Terminal 3	9 6	- c	00.00	00.1.00	,	4:8:0	0.57.43	20	0:09:44	0:29:12	0	0:00:0	0:00:0	0	0:00:0	0:00:0	7	0:14:07	1:38:51
Terminal 3	3 &	٧ +	0.12.20	0.24:51	- ,	0:19:41	0:19:41	cvi -	0:10:39	0:21:17	0	0:00:0	00:00:0	0	0:00:0	0:00:0	S	0:13:09	1:05:49
Terminal 3	t 2	- (16:11:0	16:11:0	- 1	0:13:09	0:18:09	4	0:09:39	0:38:37	0	0:00:0	0:00:0	0	0:00:0	0:00:00	9	0:11:36	1:09:37
Terminal 3	65 6	0 0	00:00:0	0:00:0	m (0:19:23	0:58:10	0	0:10:02	0:30:05	0	0:00:0	0:00:0	N	0:16:18	0:32:37	8	0:15:06	2:00:52
Terminal 3	6.5	י מ	0.11.39	0:34:58	0	0:18:57	0:37:55	-	0:09:27	0:09:27	0	0:00:0	0:00:0	0	0:00:00	0:00:00	9	0:13:43	1:22:20
Torminal	3 6	- (0.12.18	0:12:18	CV I	0:19:21	0:38:43	4	0:10:03	0:40:11	0	0:00:0	0:00:0	0	0:00:00	0:00:00	7	0:13:01	1:31:12
Terminal 2	8 6	200	0.1131	0:34:32	N	0:18:32	0:37:05	N	0:09:19	0:18:38	0	0:00:0	0:00:0	0	0:00:00	0:00:0	7	0:12:53	1:30:15
General Arintion	5 0	9 -	60.1.00	0.35.57	N	0:19:15	0:38:30	-	0:09:41	0:09:41	0	0:00:0	0:00:0	0	0:00:00	0:00:0	9	0:14:01	1:24:08
General Aviation	244	4 1	0.04.58	0:19:50	o 0	0:04:19	0:21:38	-	0:20:56	0:20:56	က	0:19:31	0:58:33	2	0:27:08	0:54:16	15	0:11:40	2:55:13
General Aviation	244	- 0	0.05.20	0.37.54	N C	0:04:47	0:09:34	-	0:21:24	0:21:24	0	0:00:0	0:00:00	-	0:27:33	0:27:33	1	0:08:45	1:36:25
General Aviation	GA12	o -	0.05.20	0.32.48	> •	0.00:00	0:00:0	0 1	0:00:0	0:00:0	-	0:50:00	0:50:00	0	0:00:0	0:00:0	7	0:07:32	0:52:48
General Aviation	GA13	- 0	0.00.02	0.00.05	- 0	0.04:57	0:04:57	ο.	0:23:40	1:58:19	0	0:00:0	0:00:0	0	0:00:00	0:00:0	7	0:18:24	2:08:48
General Aviation	GA14	4 6	0.08.07	0.10.41	0 0	0.00:13	0:15:40	- 0	0:32:27	0:32:27	0	0:00:0	0:00:00	0	0:00:0	0:00:00	9	0:09:58	0:59:49
General Aviation	GA2	,	10.00.0	0.00	0 0	0.00:00	0.00.00	o (00:00:0	0:00:00	0	0:00:0	0:00:00	0	0:00:00	0:00:0	ო	0:06:03	0:18:11
General Aviation	GA4	,	0.05.25	0.00.0	4 0	0.00.00	0.00.00	0	00:00:0	0:00:0	0	0:00:00	0:00:00	0	00:00:0	0:00:0	က	0:05:40	0:17:01
Terminal 3	Ē	- 0	0.07.7	0.40.63	0	00:00:00	0:00:00	5	0:00:00	0:00:00	0	0:00:0	0:00:0	0	0:00:0	0:00:0	,-	0:05:25	0:05:25
Terminal 3	. I	י כ	0.4.0	0.42.27	200	0:19:40	10:86:0	N O	0:10:28	0:20:56	0	0:00:00	0:00:0	0	00:00:C	0:00:0	æ	0:15:18	2:02:24
Terminal 3	2	o u	0.42.0	10000	u c	0.19.13	0.38.27	0	0:00:00	0:00:00	0	0:04:26	0:08:52	0	0:00:0	0:00:0	7	0:12:16	1:25:53
Terminal 3		ם כ		66:70:1	٠, د	00:00:0	00:00:0	N ·	0:10:26	0:20:52	-	0:04:06	0:04:06	0	0:00:00	0:00:0	80	0:11:36	1:32:53
Terminal 3	2 5	u c	0.14:30	0.28:00	- (0:19:32	0:19:32	-	0:10:04	0:10:04	-	0:04:12	0:04:12	2	7:16:14	0:32:28	7	0:13:36	1:35:16
Terminal 3	7 2	N C	0.12.22	44:44	m (0:18:10	0:54:32	4 (0:09:16	0:37:05	0	0:00:0	0:00:0	0	0:00:0	0:00:0	0	0:12:55	1:56:21
Terminal 3	H14	1 10	0.11.06	0.57.10	o c	0.00.00	0.00.0	٥	15:01:0	1:03:04	-	0:03:46	0:03:46	0	0:00:0	0:00:0	0	0:10:41	1:36:14
Terminal 3	I.	0 0	0.10.40	0.00	4 0	0.10.22	0.30.44	٠, د	0:00:0	00:00:0	-	0:04:01	0:04:01	0	0:00:0	0:00:0	80	0:12:14	1:37:55
Terminal 3	T	0 0	0.10.13	0.36.0	v -	0.10.07	90:37:04	- (0:09:44	0:09:44	0	0:00:00	0:00:0	-	0:15:56	0:15:56	7	0:14:32	1:41:44
Terminal 3	H17	> <	0.10.11	0.00.0	,	0.17.0	61:1:1	n (0:08:42	0:56:07	-	0:03:46	0:03:46	0	0:00:0	0:00:00	F	0:12:31	2:17:45
Terminal 3	Z Z		0.13	0.02.43	- 0	0.10.47	0:18:47	n (0:09:17	0:27:50	0	0:00:00	0:00:0	0	00:00:0	0:00:0	ω	0:12:25	1:39:22
Terminal 3	F2	- u	0.13.40	4.00.00	v c	0.10.42	0.37.25	ν.	65:60:0	0:19:58	0	0:00:00	0:00:0	0	00:00:0	0:00:0	ιΩ	0:14:12	1:11:02
Terminal 3	. E	0 0	0.14.04	0.49.99	י נ	0.19.22	00:98:00	4 (0:10:15	0:41:01	0	0:00:0	0:00:0	0		0:00:0	12	0:13:58	2:47:36
	į)	5	90.01	,	0.18.17	130:21	V	51:11:0	0:22:25	-	0:05:20	0:05:20	0	00:00:0	0:00:00	=	0:15:14	2:47:44

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13 He 2 C11/210 C41/22 C41/	He	TERMINAL	GATE	#	AVG DV	TOTAL	#	09L AVG	TOTAL	#	AVG A	TOTAL	#	10L AVG	TOTAL	#	AVG	TOTAL	#	ALL RUNWAYS AVG TO	TOTAL
13 High 2 0 (12-35) Gaz-64 Ga	15 Hg 10 10 10 10 10 10 10 1	Terminal 3	H 4	က	0:14:27	0.43.21	4	0.10.25	1.17.40	o	7.0.40	0.00.0									
13 He 1 0 01544	19	Ferminal 3	H2	2	0:13:03	0.56.07	4	0.10.04	118:17	o +	0.10:10	0:30:44	0	0:00:0	0:00:0	0	0:00:0	0:00:0	10	0:15:10	2:31:45
18 18 18 12 11 11 12 12	19	Ferminal 3	9H	m	0.12.35	0.37.46	-	0.00	7.07.7	- 0	0:10:30	0:10:30	0	0:00:0	0:00:00	7	0:15:35	0:31:11	တ	0:16:00	2:24:05
Section Sect	15	erminal 3	웃	+	0:13:48	0.13.48	· ~	0.19.0	4.15.00	9 1	0:09:49	0.29:26	0	0:00:0	0:00:00	0	0:00:0	0:00:00	10	0:14:20	2:23:24
156 Milit 2 1014539 102740 1 101450 1 1 1 1 1 1 1 1 1	156 M11	erminal 3	원	e	0:13:15	0.39.46	0	0.10.70	0.00.00	- •	0.10.07	0:01:0	0	0:00:0	0:00:00	0	0:00:00	0:00:0	9	0:16:32	1:39:15
156 Mill 2 CH1557 CH1547 CH15	15.66 M11	erminal 5/6	M10	-	0:14:39	0.14:39	1 0	00:00:0	00.00.0	٠,	0:11:00	90:11:0	0	0:00:0	0:00:00	0	0:00:0	0:00:0	9	0:15:04	1:30:28
156 Mile 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	156 M12	erminal 5/6	M11	2	0:13:50	0.27.40	·	0.00.00	0.00.00	- 0	0.10.58	0:10:58	0	0:00:0	0:00:0	0	0:00:0	0:00:0	2	0:12:48	0:25:37
Name	1	erminal 5/6	M12	0	0.00.0	00.00.0	- 0	0.10.33	0.00.00	,	00:00:0	0:00:0	0	0:00:0	0:00:0	0	0:00:0	0:00:0	ო	0:15:53	0:47:39
No.	15.6 M15	erminal 5/6	M13	-	0.13.01	0.13.01	٠, ١	0.10.17	0.39.22	- 0	0:10:38	0:10:38	0	0:00:0	0:00:0	-	0:16:05	0:16:05	4	0:16:31	1:06:05
	15.6 M M M M M M M M M	erminal 5/6	M15	. 0	0.14.37	0.58.17	- c	0.00.00	0.00.00	٠,	0:00:00	0:00:0	0	0:00:0	0:00:0	0	0:00:0	0:00:0	8	0:16:09	0:32:18
1.00 1.00	156	erminal 5/6	M16	0	0.00.0	0.00.0	0 0	00:00:0	0.00.00	- 0	0.03:29	0:03:29	0	0:00:0	0:00:0	0	0:00:0	0:00:0	က	0:10:54	0:32:43
Fig. Mis	156 M18	erminal 5/6	M17	-	0.13.28	0.00.00	0 0	0.00.00	00:00:0	0 0	0:00:00	0:00:0	0	0:00:0	0:00:0	-	0:16:51	0:16:51	-	0:16:51	0:16:51
Heap Fire	156 M19	erminal 5/6	M18	4	0.14:0R	0.56.31	0 0	0.00.00	0.09:08	0 0	0:00:00	0:00:0	0	0:00:0	0:00:0	-	0:17:19	0:17:19	2	0:18:09	1:30:45
Fig. May 2 0 0.0000	156 M2	erminal 5/6	M19	-	0.15.57	0.15.57	0 0	00.00.0	00:00:0	٠ د	0:00:0	0:00:0	က	0:02:52	0:08:37	2	0:16:50	0:33:41	6	0:10:58	1:38:49
Fig. Mag. 2 01566 035611 2 02000 000000 000000 000000 000000 000000	156 M20	erminal 5/6	M2	0	0:00:0	0.00.0	·	00.00.0	00:00:0	- 0	0:12:07	0:12:07	က	0:03:03	0:09:10	-	0:16:55	0:16:55	9	0:00:01	0:54:09
1.56 M.22 0.00000 0.0000	156 M21	erminal 5/6	M20	0	0.15.05	0.30.11	- 0	0.20.20	0.20.28	0 0	0:00:0	0:00:0	0	0:00:0	0:00:0	0	0:00:0	0:00:0	-	0:20:28	0:20:28
1.0 1.0	156 M22	erminal 5/6	M21	0	0.00.0	0.00.0	9 0	0.50.40	0.47.53	0 0	00:00:0	0:00:0	N	0:03:12	0:06:25	0	0:00:0	0:00:0	9	0:13:01	1:18:09
Fig. Miss 0 00000 00000 00000 0 00000 0 00000 0 0	566 M23 0 00000 </td <td>erminal 5/6</td> <td>M22</td> <td>-</td> <td>0:16:48</td> <td>0.16.48</td> <td>1 0</td> <td>0.51.51</td> <td>1.04.04</td> <td>0 0</td> <td>00:00:0</td> <td>0:00:0</td> <td>0</td> <td>0:00:0</td> <td>0:00:00</td> <td>0</td> <td>0:00:0</td> <td>0:00:0</td> <td>N</td> <td>0:21:17</td> <td>0:42:34</td>	erminal 5/6	M22	-	0:16:48	0.16.48	1 0	0.51.51	1.04.04	0 0	00:00:0	0:00:0	0	0:00:0	0:00:00	0	0:00:0	0:00:0	N	0:21:17	0:42:34
15.66 M24 0 0.000000 0.00000 0.00000 0.00000 </td <td>56 M24 0 0.000.00</td> <td>erminal 5/6</td> <td>M23</td> <td>0</td> <td>0:00:00</td> <td>0.00.0</td> <td>0 0</td> <td>00.00.0</td> <td>0.00.00</td> <td>> +</td> <td>0.00.0</td> <td>0:00:00</td> <td>0</td> <td>0:00:0</td> <td>0:00:0</td> <td>0</td> <td>0:00:0</td> <td>0:00:0</td> <td>4</td> <td>0:20:13</td> <td>1:20:53</td>	56 M24 0 0.000.00	erminal 5/6	M23	0	0:00:00	0.00.0	0 0	00.00.0	0.00.00	> +	0.00.0	0:00:00	0	0:00:0	0:00:0	0	0:00:0	0:00:0	4	0:20:13	1:20:53
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5/6 M30 4 0.17720 0.0000	5/6 M30 4 0.17.23 1.99:34 0 0.00:00 0.00:00 1.14.49 0 0.00:00 5/6 M31 0 0.00:00	erminal 5/6	M3	-	0:13:05	0:13:05	0	0:00:00	0:00:0		0.11.95	0.41.04	- 0	61.00.0	61:90:0	0	0:00:0	0:00:00	4	0:15:04	1:00:19
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5/6 M/Y 0 0.0000 0.0000 0.1921 0.1121 0.2244 0.0000	Name	rminal 5/6	MS	-	0:15:06	0:15:06	2	0:19:47	0:39:35	0	0:00:00	0.00.00	, -	0.03.17	0.00.00	- 0	0.10.10	0:16:16	· .	0:15:58	0:47:56
5/6 M8 0 0,000,00 0,000,00 2 0,1923 0,393,18 0 0,000,00 0,0	5/6 M/8 0 0.0000 0.0000 2 0.1939 0.3918 0 0.0000 0.0000 0 0	rminal 5/6	M7	0	0:00:0	0:00:0	-	0:19:21	0:19:21	2	0:11:21	0.22.41		0.00.0	0.00.0	0 0	0.00.00	00:00:0	4	0:14:29	0:57:58
Fig. May 0 0,000.00 0,000.00 2 0,19221 0,388.43 0 0,000.00 0,000.00 0,000.00 0 0,000.00 0,000.00 0 0,000.00	National Colored National Co	rminal 5/6	M8	0	0:00:0	0:00:0	2	0:19:39	0:39:18	0	0:00:00	0.00.0	0 0	0.00.0	00:00:0	,	0.00:00	00:00:0	9	0:14:00	0:42:02
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Tell	7 UET-10 1 0.08:07 0.08:07 4 0.13:02 0.52:09 0 0.00:00 0 0.00:00 7 UET-11 2 0.07:12 0.14:43 0 0.00:00 0 0 0.00:00 0 0.00:00 0 0.00:00 0 0.00:00 0 0.00:00 0 0.00:00 0 0 0.00:00 0 0.00:00 0 0.00:00 0 0 0	irminal 7	JET-1	-	0:05:42	0:05:42	-	0:12:58	0:12:58	er.	0.09.35	0.98.46	0 0	00.00.0	0.00.0	۰ د	00:00:0	0:00:0	N	0:19:21	0:38:43
The color of the	Variable	rminal 7	JET-10	-	0:08:07	0:08:07	4	0:13:02	0:52:09	0 0	0.00.0	0.00.0	o +	0.00.00	0.00:00	- 0	0:16:27	0:16:27	9	0:10:38	1:03:53
7 JET-12 2 0.093:12 0.18:24 1 0.14:00 0.000:00	7 JET-12 2 0:09:12 0:18:24 1 0:14:00 0:14:00 0:00:00 0:00:00 0:00:00 0 7 JET-14 1 0:00:48 0:00:48 1 0:14:00 0:14:00 0:00:00 0:00:00 0:00:00 0 7 JET-14 3 0:09:57 0:29:52 2 0:17:07 0:34:14 3 0:05:04 0:15:18 0 0:00:00 0 7 JET-15 3 0:09:57 0:29:52 2 0:17:15 0:34:30 2 0:05:14 0:00:00 0:00:00 0 7 JET-16 1 0:09:14 0:09:14 0:00:00 0:00:00 0 0:00:00 1 0:05:14 0 0:00:00 0 7 JET-19 0 0:00:00 0:00:00 0 0:00:00 1 0:07:00 0 0:00:00 0 0:00:00 0 0:00:00 0 0:00:0	rminal 7	JET-11	2	0:07:22	0:14:43	0	0:00:0	0.00.0	0 0	00:00:0	00:00:0	- 0	0.13.40	0.13:25	0	0:00:00	0:00:0	9	0:12:16	1:13:41
The control of the	7 JET-13 1 0.09846 0.09848 2 0.17507 0.3414 3 0.05606 0.15618 0 0.00000 7 JET-16 3 0.09857 0.22840 4 0.17716 1.08840 4 0.05606 0.75618 0 0.00000 7 JET-16 1 0.10622 0.17715 0.38330 2 0.05600 0.00000 0 0.00000 7 JET-16 1 0.10622 0.10776 0.00000 4 0.05714 0.00000 0.00000 7 JET-17 1 0.0014 1 0.0014 1 0.0014 0.00000 7 JET-19 0 0.00000 0.00000 0.00000 1 0.0014 0.00000 0.00000 7 JET-2 0 0.00000 0.01030 0.00000 0.00000 0.00000 0.00000 0.00000 8 0 0.00000 0.00000 0.00000 0.00000 0.00000	rminal 7	JET-12	8	0:09:12	0:18:24	-	0:14:00	0.14.00	0 0	00.00.0	00:00:0	0 0	0.00.00	00:00:0	- ,	0:14:13	0:14:13	က	0:09:38	0:28:56
7 JET-14 3 0.09:53 0.29:40 4 0.17:10 1:08:40 4 0.05:08 0.20:33 0.00:00	7 JET-14 3 0.09:53 0.29:40 4 0.17:10 1.08:40 4 0.05:08 0.20:33 0 0.00:00 7 JET-16 3 0.09:57 0.29:52 2 0.17:15 0.34:30 2 0.05:14 0.10:28 0 0.00:00 7 JET-17 1 0.09:14 0.09:14 1 0.00:00 0 0	rminal 7	JET-13	-	0.09:48	0:09:48	N	0:17:07	0:34:14	0	0:05:06	0.15-18	0 0	0.00.00	00:00:0	-	00:00:0	0:00:0	o i	0:10:48	0:32:24
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	00:00:0	minal 7	JET-21	-	0:10:12	0:10:12	0	0:00:00	00:00:0	, 0	0.00.00	0.00.00	> 0	00:00:0	0:00:00	- 0	0:12:59	0:12:59	က	0:13:35	0:40:47

D-301

Times Time	TERMINAL	GATE	#	9 AVG	TOTAL	#=	O9L AVG	TOTAL	*	10 AVG	TOTAL	*	AVG AVG	TOTAL	*	10R AVG	TOTAL	#	ALL RUNWAYS AVG TO	AYS TOTAL
	Terminal 7	JET-22	-	0:09:14	0:09:14	-	0:09:14	0:09:14		0.09-14	0.09-14	,	0.00.14	0.00.4	•	77.00.0	7.00.0			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Terminal 7	JET-23	0	0:00:0	0:00:00	N	0:16:19	0:32:38	c	0.00.0	0.00.0	- c	0.00.0	0:00:0	- 0	0.00.0	0.09:14	- 0	0:09:14	0:09:14
	Terminal 7	JET-25	-	0:06:54	0:06:54	,-	0:13:35	0.13:35	C	0.00.0	0.00.0	0 0	00.00.0	00:00:0	0	0.00.00	0.00.00	N C	0:16:19	0.32.38
The control of the	Terminal 7	JET-26	-	0:07:19	0:07:19	0	0:00:0	0:00:0	0	0:00:0	00.00.0	0 0	0.00.0	00:00:0	0 0	0.00.00	0.00:00	N •	41:01:0	0:20:58
17. 1677-3 0.00000 0.00000 1.071-32 0.00025 0.00000	Terminal 7	JET-28	0	0:00:0	0:00:0	N	0:14:44	0:29:29	C	0.00.0	0.00.0	0 0	00.00.0	00:00:0	0 0	0000	0.00.00	- (6.00	61:70:0
17. HE	Terminal 7	JET-29	0	0:00:00	0:00:00	-	0:16:31	0:16:31	, -	0.02.00	0.00.00	o c	00.00	0.00:00	0 0	00:00:0	0:00:0	N (0:14:44	0:29:29
1.1. High 1.1. 1.0. 1.1. 1.0. 1.1. 1.0. 1.1. 1.0. 1.1. 1.0. 1.1. 1.0. 1.1.	Terminal 7	JET-3	0	0:00:00	0:00:00	0	0:00:00	0:00:0		0.08.37	0.08.37	0 0	00.00.0	0.00.00	5 1	00:00:0	0:00:0	N (LO:TL:0	0:22:03
1 18 18 19 19 19 19 19	Terminal 7	JET-31	-	0:06:21	0:06:21	4	0:13:37	0.54:30		0.02.0	0.02:03	0 0	00:00:0	00:00:0	- ,	0:14:45	0:14:45	N I	0:11:41	0:23:22
1 15 15 15 15 15 15 15	Terminal 7	JET-34	0	0:00:00	0:00:00	-	0.17.28	0.17.98		20.70.0	20.70.0	0	0.00.00	00:00:0	- (0:13:16	0:13:16	1	0:11:35	1:21:10
The control of the	Terminal 7	JET-4	0	0:00:00	00:00:0	4	0.13.28	0.53.54	- c	0.00.00	0.00.00	0 0	00:00:0	0:00:00	,	0:11:36	0:34:50	0	0:11:32	0:57:43
	Terminal 7	JET-40	2	0:10:04	0:50:09	-	0:14:13	0.14.13	·	0.00.00	0.00.00	> +	0.00.00	00:00:00	0 0	0:00:00	0:00:0	4	0:13:28	0:53:54
The control of the	Terminal 7	JET-41	-	0:08:09	0:08:09	-	0.14.50	0.14.50	- 0	0.06.40	0.07.70	- 0	70.11.0	0.11.0	,	0:00:00	00:00:0	ro.	0:10:34	0:52:54
The column The	Terminal 7	JET-42	N	0:08:56	0:17:52	•	0.15.46	0.15.46	J C	0.00.0	0.00.00	o c	00:00:0	0:00:0	- (0:11:57	0:11:57	ın	0:09:43	0;48:35
The control of the	Terminal 7	JET-43	N	0:13:02	0:26:04	· c	0.00.0	00.00.0	0 0	00.00.0	0.00.00	0 0	0.00.00	0:00:0	0	0:00:0	0:00:0	က	0:11:12	0:33:38
The color of the	Terminal 7	JET-44	0	0:00:00	0:00:0	,	0.18.34	0.00.0	0 0	00.00.0	00:00:0	> 0	00:00:0	00:00:0	0	0:00:0	0:00:0	N	0:13:02	0:26:04
The color of the	Terminal 7	JET-45	-	0:13:38	0:13:38	· c	0.00.00	00.00.0	٠ -	0.00.00	0.00.00	0 0	00:00:0	0:00:0	0	0:00:0	0:00:0	-	0:18:34	0:18:34
The column The	Terminal 7	JET-46	0	0.00.0	0.00.0	, -	0.14.15	0.77.10	- 0	0.00.00	0.07.03	o 0	0.00.00	0:00:0	0	0:00:0	0:00:0	01	0:10:50	0:20:41
The control of the	Terminal 7	JET-7	C	0:02:00	0.14.00		0.11.47	11.11	٠,	0.00.00	4.0.0	٠ .	0:00:0	00:00:0	7	0:13:02	0:56:04	Ŋ	0:10:47	0:53:57
The column The	Terminal 7	JET-8	C)	0.05.28	0.10.56		0.00.00	00:00:0	- 0	0.00.00	0.10.30	- ,	0:14:17	0:14:17	0	0:00:0	0:00:0	ທ	0:10:02	0:50:10
K1 2 014436 02912 5 014436 02912 02912 02912 02912 02912 02912 02912 02912 02912 02912 02912 02912 02912 02912 02912 02912 02912 02912 02912	Terminal 7	JET-9	1 -	0.07.50	0.07.50	·	0.00.00	0.00.00	۰ د	0:00:00	00:00:0	-	0:13:50	0:13:50	-	0:16:08	0:16:08	4	0:10:13	0:40:54
K(1) F(1) F(1) <th< td=""><td>Terminal 3</td><td>2</td><td>- 0</td><td>0.17.36</td><td>0.00.0</td><td>- u</td><td>0.000</td><td>0.13:00</td><td></td><td>51:11:0</td><td>21:11:0</td><td>0</td><td>0:00:0</td><td>0:00:0</td><td>0</td><td>0:00:0</td><td>0:00:0</td><td>က</td><td>0:10:40</td><td>0:32:02</td></th<>	Terminal 3	2	- 0	0.17.36	0.00.0	- u	0.000	0.13:00		51:11:0	21:11:0	0	0:00:0	0:00:0	0	0:00:0	0:00:0	က	0:10:40	0:32:02
X (1) X (1) <th< td=""><td>Terminal 3</td><td>Kin</td><td>וע</td><td>0.13.04</td><td>4.07.03</td><td>0 0</td><td>0.40.40</td><td>1.46:24</td><td>- (</td><td>0:12:11</td><td>0:12:11</td><td>0</td><td>0:00:0</td><td>0:00:0</td><td>-</td><td>0:18:37</td><td>0:18:37</td><td>6</td><td>0:18:42</td><td>2:48:24</td></th<>	Terminal 3	Kin	וע	0.13.04	4.07.03	0 0	0.40.40	1.46:24	- (0:12:11	0:12:11	0	0:00:0	0:00:0	-	0:18:37	0:18:37	6	0:18:42	2:48:24
K12 O 000000	Terminal 3	K11	, -	0.13.30	0.19.90	v +	74.00	0.38:35	0 0	00:00:0	0:00:0	0	0:00:00	0:00:0	0	0:00:00	0:00:0	7	0:15:13	1:46:37
X (X) (X) </td <td>Terminal 3</td> <td>K12</td> <td>- c</td> <td>0.00.00</td> <td>00.00.0</td> <td>- c</td> <td>62.12.0</td> <td>62:12:0</td> <td>0 0</td> <td>0:00:00</td> <td>0:00:0</td> <td>0</td> <td>0:00:0</td> <td>0:00:0</td> <td>0</td> <td>0:00:0</td> <td>0:00:0</td> <td>N</td> <td>0:17:29</td> <td>0:34:59</td>	Terminal 3	K12	- c	0.00.00	00.00.0	- c	62.12.0	62:12:0	0 0	0:00:00	0:00:0	0	0:00:0	0:00:0	0	0:00:0	0:00:0	N	0:17:29	0:34:59
X (1) X (2) X (2) <th< td=""><td>Terminal 3</td><td>K13</td><td>y</td><td>0.00.00</td><td>4.30.30</td><td>> 1</td><td>00000</td><td>00:00:0</td><td>m ·</td><td>0:09:45</td><td>0:29:16</td><td>0</td><td>0:00:0</td><td>0:00:0</td><td>0</td><td>0:00:0</td><td>0:00:0</td><td>က</td><td>0:09:45</td><td>0:29:16</td></th<>	Terminal 3	K13	y	0.00.00	4.30.30	> 1	00000	00:00:0	m ·	0:09:45	0:29:16	0	0:00:0	0:00:0	0	0:00:0	0:00:0	က	0:09:45	0:29:16
4 (15) 7 (15) 7 (15) 7 (15) 7 (15) 7 (15) 7 (15) 7 (15) 1 (15)<	Terminal 3	K14	0 0	0.00.00	0.00.00	- 0	0.00.00	0:50:35	4 (0:11:53	0:47:32	-	0:04:03	0:04:03	0	0:00:0	00:00:0	12	0:13:29	2:41:49
K16 1 0.13.21 0.13.21 0.13.21 0.13.21 0.13.21 0.13.21 0.13.21 0.13.21 0.13.21 0.13.22 0.14.25 0.14.25 0.14.25 0.14.25 0.14.25 0.14.25 0.14.25 0.14.25 0.04.25<	Terminal 3	Kin	, -	0.000	0.00.0	0 0	0.00.00	00:00:0	0	00:00:0	0:00:0	-	0:03:50	0:03:50	0	0:00:0	0:00:0	-	0:03:50	0:03:50
K17 3 C11422b Q 202114 C 20211 C 20212	Terminal 3	K16	- 0	0.10.7	12:21:0	N C	0.20.22	0:40:45	-	0:11:41	0:11:41	-	0:03:46	0:03:46	-	0:17:04	0:17:04	9	0:14:46	1:28:37
K18 1 0.126.22 0.126.1	Terminal 3	K17	1 0	7.7.7	0.42.47	v ,	0.18.28	76:95:0	4	0:09:16	0:37:04	-	0:03:12	0:03:12	-	0:15:28	0:15:28	10	0:12:00	2:00:09
K19 1 0.14.16 0.12.02 2 0.14.16 0.14.16 0.14.16 0.14.16 0.14.16 0.14.16 0.14.16 0.020.02 0.000.00 <	Terminal 3	718	7	0.14:20	0.43:15	- 0	0:20:11	0:20:11	m	0:11:36	0:34:47	0	0:00:0	0:00:0	-	0:17:27	0:17:27	80	0:14:27	1:55:40
KZ 5 0.1523 1.7004 0.0214	Terminal 3	X 20	- 0	0.14.16	0:12:02	ν,	91:61:0	0:38:38	4	0:10:00	0:39:59	0	0:00:0	0:00:0	0	0:00:0	0:00:0	7	0:12:57	1:30:39
K20 1 014320 1 17.04 1 00000 0.0000	Terminal 3	22) ц	0.14.10	4.47.40	- ,	0.20.02	0.50:02	m 1	0:10:33	0:31:38	0	0:00:0	0:00:0	0	0:00:0	0:00:0	~	0:13:29	1:34:29
KZI 2 C113:58 C115:58 C115:59 C115:58 C115:58<	Terminal 3	202	· -		0.14.30	- 0	0.0000	0:27:48	m e	0:12:51	0:38:34	0	00:00:0	0:00:0	-	0:17:54	0:17:54	10	0:15:32	2:35:21
KZ2 4 0.1454 0.0203 0.0200 0.0000 0.0000 0.01648 0.16848 0.16848 0.16848 0.02040 0.00000 0.0000 0.0000 0.0000 <td>Terminal 3</td> <td>K21</td> <td>- 0</td> <td></td> <td>0.57.67</td> <td>ם כ</td> <td>0.00.00</td> <td>00000</td> <td>> 0</td> <td>0:00:0</td> <td>0:00:0</td> <td>N</td> <td>0:02:52</td> <td>0:05:45</td> <td>0</td> <td>0:00:0</td> <td>0:00:0</td> <td>က</td> <td>0:06:45</td> <td>0:20:15</td>	Terminal 3	K21	- 0		0.57.67	ם כ	0.00.00	00000	> 0	0:00:0	0:00:0	N	0:02:52	0:05:45	0	0:00:0	0:00:0	က	0:06:45	0:20:15
K4 0.16519 0.2211 0.2211 0.12246 0.02244 0.022	Terminal 3	K22	1 4		0.58.58	0 0	0.00.00	10.60.1	n (0:10:35	0:31:45	0	0:00:0	0:00:00	-	0:16:48	0:16:48	Ξ	0:16:01	2:56:21
3 K4 4 0.1653 0.2215 0.2434 3 0.1215 0.1215 0.0000 0.	Terminal 3	2	0		0.30.30	2 0	0.50.11	1.00.35	N 1	0:10:54	0:21:47	0	00:00:0	0:00:0	0	0:00:0	0:00:0	6	0:15:28	2:19:18
3 K5 2 0.1628 0.22140 0.43224 0.00000	Terminal 3	7	4		1.07.33	0 0	0.21.51	0.49.49	- 0	0.12.13	612:15	o ,	0:00:00	00:00:0	-	0:18:42	0:18:42	œ	0:17:41	2:21:34
3 K6A 3 0.1220 0.37701 1 0.1936 0.1012 0.0010 0.0000	Terminal 3	χ 35	2		0:32:56	10	0.51.40	0.43.51	2 0	0.10.00	0:37:22	- 0	0:02:08	0:02:08	0	0:00:0	0:00:0	9	0:15:22	2:33:46
3 K6B 3 0.14;26 0.42;19 3 0.18;13 0.00000 2 0.00000 0 0.00000 1 0.14;28 0.00000 8 0.11;13 3 K7 3 0.15;28 0.44;29 3 0.18;35 0.00000 0.00000 0.00000 1 0.14;39 0.14;39 0.14;39 0.00000 0.00000 1 0.11;26 0.11;27 0.14;39 0.00000 0.00000 1 0.14;39 0.14;39 0.14;39 0.00000 0.00000 1 0.14;39 <	Terminal 3	K6A	m		0:37:01		0.10.36	0.10.38	u 0	0.10.00	0.24:45	,	00:00:0	0:00:00	0	0:00:0	0:00:0	9	0:16:50	1:41:02
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Terminal 3	K6B	m		0:43.19	· 01	0.18.51	0.58.95	, ,	0.00.00	70:15:0	- 0	0.04:28	0:04:28	0	0:00:0	0:00:0	œ	0:11:31	1:32:12
3 K8 2 0.13:26 0.26:52 2 0.19:38 0.23:38 0.00000 0.00000 1 0.11:56 0.17:56 0.17:56 0.17:56 0.17:56 0.17:56 0.17:56 0.17:56 0.17:56 0.17:56 0.17:56 0.17:56 0.17:56 0.17:56 0.17:56 0.17:56 0.17:56 0.14:22 0.17:56 0.00000 0.17:51 0.17:51 0.17:51 0.17:51 0.17:51 0.17:51 0.17:51 0.17:51 0.17:51 0.17:51 0.17:52 0.17:52 0.17:52 0.17:52 0.17:52 0.17:52 0.17:53 0.00000 0.17:51 0.17:51 0.17:51 0.17:51 0.17:51 0.17:51 0.17:52 0.17:52 0.00000 0.	Terminal 3	K7	n		0:46:25	0	0:00:00	0.00.0	0 0	0.00.00	0.00.00	00	00:00:0	0:00:00	- ,	0:16:12	0:16:12	1	0:16:35	1:56:06
3 K9 2 0.16:01 0.32:03 1 0.21:02 0.21:02 0.00:00 0.00:00 1 0.17:43 0.16:17 8 0.14:42 3 L10 0 0:00:00 0:00:00 0 0:00:00 0:00:00 0 1 0:17:43 0:17:43 0:17:43 0:17:43 0:17:43 0:17:43 0:17:43 0:17:43 0:17:43 0:17:44 0:17:43 0:00:00 <t< td=""><td></td><td>K8</td><td>N</td><td></td><td>0:26:52</td><td>0</td><td>0.19.35</td><td>0.39-11</td><td>1 0</td><td>0.10.59</td><td>00.00.0</td><td>0 0</td><td>00.00</td><td>0.00.00</td><td>- ,</td><td>0:1/:00</td><td>96:71:0</td><td>9</td><td>0:14:38</td><td>1:27:48</td></t<>		K8	N		0:26:52	0	0.19.35	0.39-11	1 0	0.10.59	00.00.0	0 0	00.00	0.00.00	- ,	0:1/:00	96:71:0	9	0:14:38	1:27:48
3 L10 0		K9	N		0.32.03	-	0.51.00	0.51.05	, .	2000	0.32.30	0 0	00:00:0	00:00:0	- 1	0:16:17	0:16:17	ω	0:14:22	1:54:58
3 L2 0 0:00:00 0:00:00 0:00:00 1 0:21:34 0 0:00:00 0 0:00:00 0 0:00:00 0 0:00:00		110	0	0:00:0	0.00.0	. ,-	0.50.40	0.50.48		0.12.20	0.12.20	0 0	00:00:0	0:00:0	N	0:17:43	0:35:27	9	0:16:48	1:40:52
3 L4 2 011514 03028 0 00000 0 00000 0 00000 0 00000 0 00000		2	C		00.00.0		0.01.94	0.50.43	- 0	0.11.93	00.000	0 0	00:00:0	0:00:0	-	0:17:13	0:17:13	က	0:16:38	0:49:55
3 L6 0 0,00:00 0;00:00 1 0,221:10 0,221		L4	0		0.30.08	- c	0.00.00	0.00.00	0 0	0.00:00	0:00:0	0	00:00:0	0:00:0	0	0:00:0	0:00:0	-	0:21:34	0:21:34
3 L8 2 0:14:38 0:29:17 0 0:00:00 0:00:00 1 0:12:44 0:12:44 1 0:04:13 0:04:13 0 0:00:00 0:00:00 4 0:11:38 (97	10		0.00.00	·	0.00.00	0.00.00	> 0	0.00.00	00:00:0	0	0:00:0	0:00:0	-	0:17:25	0:17:25	က	0:15:57	0:47:53
0.000,00 0.0	Terminal 3	~	0		0.50.17	- 0	00.000	0.000	,	0.12.24	0.37:12	0	00:00:0	0:00:00	0	0:00:0	0:00:0	4	0:14:35	0:58:22
		1	1	200	0.00.11	>	0.00.00	00.00.00	-	0:12:44	0:12:44	-	0:04:13	0:04:13	0	00:00:0	0:00:0	4	0:11:33	0:46:14

	ļ		6			160 03F			9			101			10R		•	ALL RUNWAYS	AYS
EDIMINAL	GAIE	#	AVG	TOTAL	#	AVG	TOTAL	#	AVG	TOTAL	#	AVG	TOTAL	#	AVG	TOTAL	#	AVG	TOTAL
Terminal 7	RJ-1	2	0:09:13	0:18:25	-	0:16:30	0:16:30	co	0.06.05	0.18.16	c	0.00.0	00.00.0	c	0.49.40	00.30.0	0	0.00.0	0.0
Terminal 7	RJ-10	4	0:08:31	0:34:06	en	0:15:49	0.47.29	o co	0.05.44	0.17.10	0 0	00:00:0	00:00:0	4 0	0.00.00	0.00.00	0 0	0.09.40	200
Terminal 7	RJ-11	8	0:08:18	0:24:53	-	0:15:36	0:15:36	4	0.07-14	0.98.57	0 0	00.00.0	00:00:0	0 0	00.00.0	00.00.0	2 0	0.09.32	74.00.4
Terminal 7	RJ-12	-	0:08:10	0:08:10	· cr	0.15.27	0.46.22		0.07-14	70.74.0	,	0.00.0	0.00.0	0	00.00.0	00:00:0	0 1	0:08:40	1:09:26
Terminal 7	RJ-13	e	0:08:00	0:24:01	,	0.15-18	0.15.18	10	0.06.15	0.19.91	- 0	0.00.00	0.09.32	۰ د	0.00.00	00:00:0	~ 1	51:11:0	1:18:31
Terminal 7	RJ-14	0	0.07.52	0.15.44	- «	0.15.10	1.91.04	u <	0.00.0	0.12.31	0	0:00:00	00:00:0	- ,	0:12:27	0:12:27	-	0:09:11	1:04:17
Terminal 7	R.1-15		0.07.43	0.07.43	0 0	20.00	10.10.0	+ 4	0.00.30	0.20.23	> (0:00:0	0:00:0		0:12:46	0:12:46	13	0:11:13	2:25:57
Terminal 7	B.1.18	- 0	00.00.0	0.00	י נ	0000	0.45.05	4 0	0:00:49	0:27:16	0	0:00:0	0:00:0	7	0:12:40	0:25:20	9	0:10:32	1:45:24
Terminal 7	277	4 0	0.00.0	0.00.17	0 0	0.15:27	11:71:1	· c	0:07:18	0:21:55	0	0:00:0	0:00:0	0	0:00:0	0:00:0	9	0:11:32	1:55:29
Terminal 7		0 0	0.00.00	0.24:17	N	0:15:19	0:30:38	-	0:07:56	0:07:56	0	0:00:0	0:00:0	-	0:13:28	0:13:28	7	0:10:54	1:16:19
Tominal 7	0 0	N .	26:70:0	0:15:45	n	0:15:10	0:45:32	က	0:07:06	0:21:19	0	0:00:0	0:00:0	8	0:12:57	0:25:54	10	0:10:51	1:48:30
Termina /	21-51	-	0:07:43	0:07:43	വ	0:15:06	1:15:32	-	0:06:59	0:06:59	0	0:00:0	0:00:0	က	0:12:58	0:38:54	10	0:12:54	2:09:08
reminal /	H-0-2		0:09:03	0:00:03	ເດ	0:16:19	1:21:39	က	0:05:57	0:17:51	0	0:00:0	0:00:0	-	0:12:08	0:12:08	10	0:12:04	2:00:41
l erminal /	HJ-20	4	0:07:35	0:30:20	က	0:14:53	0:44:40	N	0:06:29	0:12:58	0	0:00:0	0:00:00	0	0:00:0	00:00:0	0.	0.09.46	1.97.58
l erminal 7	RJ-23	-	0:07:23	0:07:23	2	0:14:40	0:29:21	N	0:06:57	0:13:53	0	0:00:00	00:00:0	-	0:13:30	0:13:30	· (C	0.10.41	1.04.07
Terminal 7	RJ-24	ო	0:07:58	0:23:53	2	0:14:30	0:29:01	0	0:00:0	0:00:0	0	00:00:0	00.00.0	c	0.00.0	00.00.0	o u	2.00.0	A.C. C.
Terminal 7	RJ-25	0	0:00:00	0:00:0	4	0:14:23	0:57:32	N	0:06:49	0:13:37	C	0.00.0	00.00.0	0	0.19.16	0.56.35	0	0.10	4.07.44
Terminal 7	RJ-26	N	0:06:55	0:13:50	4	0:14:13	0:56:55	-	0:06:52	0:06:52	C	0.00.0	00.00.0	. +	0.15.41	0.15.41	o a	0.11.17	01.00.1
Terminal 7	RJ-3	က	0:08:55	0:26:45	2	0:16:13	0.32.27	4	0.05-48	0.53.15		00.00.0	00:00:0	- •	0.42.00	0.12.4	0 0	71.17	0.00.10
Terminal 7	RJ-4	•	0:08:46	0:08:46	2	0:16:05	0.32-11		0.05-51	0.11.40	0 0	00:00:0	00.00.0	- •	0.14.50	0.12.00	2 0	0:08:26	1:34:24
Ferminal 7	RJ-5	co	0.08:39	0.25.56	0	0.15.55	0.47.48	10	00.00.0	0.40	0	0.00.00	0.00.00	- (20:11:0	26:11:0	0	0:10:45	1:04:31
Ferminal 7	B.1-6	4	0.00.0	76.96.0	, -	0.18.33	04.74.0	,	0.00.39	0.10.0	0	0:00:0	0:00:0	o	0:00:00	0:00:00	0	0:10:04	1:30:39
Terminal 7	2 - 0	+	0.00.0	10.00.0		0.10.23	0.10.23	4	0:00:16	0:52:06	0	0:00:0	0:00:0		0:12:27	0:12:27	9	0:09:03	1:30:30
Terminal 7	010	- 0	0.00.00	0.00.00	4 (0.16:17	1:05:09	,	0:06:09	0:18:27	0	0:00:0	0:00:00	N	0:12:20	0:24:40	10	0:11:43	1:57:12
Torminal 7	9 0	v	0.08:43	0:17:27	n (60:91:0	0:48:29	m	0:05:59	0:17:57	0	0:00:0	0:00:0	2	0:12:16	0:24:33	10	0:10:50	1:48:26
Tollinia /	2	V	0.08.39	81:71:0	2	0:15:59	0:31:58	9	0:05:51	0:35:06	0	0:00:0	0:00:0	0	0:00:0	0:00:0	10	0:08:26	1:24:23
Terminal 4	14-11	0	0:00:0	0:00:0	-	0:20:31	0:20:31	8	0:11:38	0:23:17	0	0:00:0	0:00:0	-	0:17:11	0:17:11	4	0:15:14	1:00:59
erminal 4	21-41	9	0:16:22	1:38:11	0	0:00:0	0:00:0	0	0:00:0	0:00:0	0	00:00:0	0:00:00	0	0:00:00	0:00:0	œ	0.16-21	1.38-11
Ferminal 4	T4-13	-	0:16:22	0:16:22	-	0:20:45	0:20:45	0	0:00:00	0:00:00	0	0:00:0	0:00:0	-	0:17:28	0.17.28	0.00	118.1	0.54.35
Ferminal 4	T4-5	0	0:00:0	0:00:0	-	0:20:06	0:20:06	N	0:12:01	0:24:02	0	0:00:00	00:00:0	0	0.00.0	0.00.0	0 00	0.14.42	0.44.0
Ferminal 4	T4-7	2	0:14:44	0:29:27	0	0:00:0	0:00:00	0	0:00:00	00:00:0	C	0.00.0	0.00.0	0	0.00.0	0.00.00	0 0	0.44.40	0.00.0
Ferminal 4	T4-8	က	0:16:14	0:48:43	0	0:00:0	0:00:0	-	0:14:08	0:14:08	0	0:00:00	0.00.0	0 0	0.00.00	0.00.0	u <	0.14.40	1.00.51
Ferminal 4	T4-9	0	0:00:0	0:00:0	0	0:00:0	0:00:0	8	0:12:14	0:24:28	-	0:04:24	0:04:24	-	0:17:39	0:17:39	4	0:11:37	0.46:31
	ALL GATES	459	0:12:24	94:53:38	482	0:18:31	149:41:47	495	0:10:17	84:50:42	102	0:07:35	12:54:19	146	0:16:05	39:08:45	1687	0:13:34	0:13:34 381:29:11

D-303

TAAM Project Name: data/projects/taam/KORD_EIS_EXP33.prj

ORD Departures Unimpeded Taxi-Out Times - Departure Gate to Runway

Unimpeded Taxi-Out Times (HH:MM:SS)

	GATE #	AVG	TOTAL	#	AVG	TOTAL	#	AVG	TOTAL	*	AVG	TOTAL	#	AVG.	TOTAL	#	ALL RUNWAYS AVG TO	VAYS
B10 0.00000 0.00000 0.00000 1	0	0:00:00	0:00:0	m	0:08:50	0.26:32	4	0.09-51	96-98-0	۰	0.19.97	0.04.54		00.00.0	00.00.0	1	10000	
B11 0 00000 00000 0 B14 0 00000 00000 0 B18 0 00000 00000 0 B20 0 00000 00000 0 B22 0 00000 00000 0 B22 0 00000 00000 0 B23 0 00000 00000 0 B34 0 00000 00000 0 B4 0 00000 00000 0 C11 0 00000 0 0 C12 0 00000 0 0 C13 0 00000 0 0 C14 0 00000 0 0 C15	0	00:00:0	0:00:00	4	0:10:22	0.41:31	· c	0.10.55	0.30.46	1 <	0.12.40	0.64.04	0	00.00.0	0.00:00	י מ	50:01:0	
B12	0	0:00:00	00:00:0	œ	0.10.33	1.03.10	00	0.11.0	0.55.40	+ 0	0.00.00	0.00.0	0 0	0.00.00	0:00:00	= "	G:TT:0	
B14	0	00:00:0	00:00:0	4	0.10.12	0.40.51	10	0.11.0	0.22.31	> +	0.00.00	0.00.00	0	0.00.00	0:00:00	ו סו	0:10:4	25.3
B16	C	0.00.00	0.00.00		0.10.07	10.01.0	1 +	0.10.00	0.42.0	- 0	0.14.09	0.14:09	5 (0:00:0	0:00:00	,	40:11:0	1:17:3
B18	0 0	0.00.0	00.00.0	- u	0.00.00	0.11.6	- 0	20.21.0	0.00.00	,	0:14:34	0:43:42	0	0:00:00	0:00:0	S	0:13:20	1:06:4
1	0 0	00.00.0	00:00:0	0 0	0.00.30	0.11.0	> 0	00:00:0	00:00:0	4	513:13	0:52:55	0	0:00:0	0:00:0	9	0:09:28	
B19 0 00000 0 00000 1	0 0	0.00.0	00:00:0	200	0.07.00	0.27:10	۰ د	0:00:00	0:00:0	0 .	0:00:0	0:00:0	0	0:00:0	0:00:0	က	0:07:03	
B2	0 0	00.00.0	00.00.0	0 0	0.07.40	0.22.15	- (0:11:29	62:11:0	-	0:14:21	0:14:21	0	0:00:0	0:00:00	ıO	0:09:37	
B20	0 0	00.00.0	0.00.00	0 0	01:70:0	0:130	0 .	0:00:00	0:00:0	-	0:14:20	0:14:20	0	0:00:0	0:00:00	4	0:08:57	
B22 0 00000 0 00000 2	0 0	0.00.00	0.00.00	N I	0:08:50	0:710	- 1	0:09:14	0:09:14	0	0:00:0	0:00:0	0	0:00:0	0:00:0	က	0:08:58	
B22	0 0	0:00:0	00:00:0	0	0:02:03	0:35:37	0	0:00:0	0:00:00	-	0:14:00	0:14:00	0	0:00:0	0:00:00	9	0:08:16	
B24 0 000000	0 0	0:00:0	00:00:0	2	0:07:52	0:15:45	ო	0:11:59	0:35:59	7	0:14:03	0:28:07	0	0:00:0	0:00:0	7	0:11:24	
B4 0 000000 000000 5 BB BB 0 000000 000000 0 BB BB 0 000000 000000	0 (0:00:0	0:00:00	7	0:07:40	0:15:21	N	0:11:53	0:23:47	-	0:13:44	0:13:44	0	0:00:0	0:00:0	ທ	0:10:34	
B	D	0:00:0	0:00:0	n	0:08:46	0:26:20	-	0:09:17	0:09:17	-	0:11:11	0:11:11	0	0:00:0	0:00:0	ß	0:09:21	Ī
1	0	0:00:0	0:00:00	n	0:09:07	0:45:38	က	0:09:13	0:27:40	0	0:00:0	0:00:0	0	0:00:0	0:00:0	00	0:00:0	
B6	0	0:00:0	0:00:00	4	0:00:03	0:36:15	N	0:10:45	0:21:30	8	0:12:30	0:25:01	0	0:00:0	0:00:00	00	0.10.50	
B4	0	0:00:0	0:00:0	8	0:09:04	0:18:08	N	0:10:06	0:20:13	4	0:12:58	0:51:55	0	0:00:00	0:00:00	000	0:11:17	
BB	0	0:00:00	0:00:0	က	0:09:47	0:29:23	က	0:10:46	0:32:19	0	0:00:00	0:00:0	0	0:00:00	00:00:0	9	0.10-17	
H99 0 030000 0 000000 3 0 000000 0 000000 0 0 0 0 0 0 0 0 0 0 0	0	0:00:00	0:00:0	4	0:00:0	0:38:03	က	0:11:23	0:34:10	-	0:13:26	0:13:26	0	0:00:0	0:00:00	0 00	0:10:42	
C11 0 000000 000000 4 4 1 1 1 1 1 1 1 1 1	0	0:00:0	0:00:0	က	0:10:13	0:30:39	-	0:12:02	0:12:02	က	0:13:20	0:40:02	0	0:00:00	0:00:0	_	0:11:49	
C110 0 030000 0 000000 0 0 0 0 0 0 0 0 0	0	0:00:0	0:00:0	4	0:06:52	0:27:30	9	0:08:21	0:50:08	N	0:11:11	0:22:23	0	0:00:0	0:00:00	12	0:08:20	
C17 0 000000 000000 0 000000 0 0 000000 0 0	0	0:00:00	0:00:0	4	0:07:23	0:29:33	-	0:09:30	0:09:30	က	0:12:02	0:36:08	0	0:00:00	00:00:0	80	0:09:23	
C172 0 030000 000000 3 C172 0 000000 000000 0 C174 0 000000 000000 000000 0 C174 0 000000 000000 000000 0 C174 0 000000 000000 000000 000000 000000 0000	0	0:00:0	0:00:0	4	0:06:03	0:36:15	4	0:09:26	0:37:44	ß	0:12:32	1:02:44	0	0:00:0	0:00:00	13	0:10:31	
C15	0 (0:00:0	0:00:0	œ.	0:02:00	0:21:01	R	0:09:33	0:19:07	0	0:11:39	0:34:59	0	00:00:0	0:00:00	100	0:09:23	
C16 0 000000 000000 1 0 0 000000 1 0 0 0 0	o (0:00:00	0:00:0	က	0:09:54	0:29:43	-	0:10:28	0:10:28	-	0:13:20	0:13:20	0	0:00:0	0:00:0	20	0:10:42	_
C17 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	0 0	0:00:00	0:00:0	-	0:05:49	0:05:49	0	0:00:0	0:00:0	က	0:11:10	0:33:32	0	0:00:0	0:00:0	4	0:09:50	_
C18 0 000000 000000 0 0 0 0 0 0 0 0 0 0 0	0	0:00:0	0:00:0	4	0:09:53	0:39:33	-	0:11:35	0:11:35	0	0:00:0	0:00:0	0	0:00:0	0:00:00	ro	0:10:13	_
C22 0 030000 0.00000 0 0.000000	0	0:00:0	0:00:0	0	0:00:00	0:00:0	-	0:10:07	0:10:07	-	0:11:43	0:11:43	0	0:00:0	0:00:00	N	0:10:55	_
C22 0 030000 050000 5 0 050000 0 0 050000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0:00:00	0:00:0	4	0:09:40	0:38:42	-	0:11:44	0:11:44	ເດ	0:13:09	1:05:49	0	0:00:0	0:00:00	10	0:11:37	
C22 0 000000 0.00000 0 0.00000 0 0 0 0 0	0	0:00:0	0:00:0	വ	0:06:47	0:33:59	2	0:10:09	0:50:45	7	0:11:02	0:22:05	0	0:00:0	0:00:00	12	0:08:54	
C27 0 000000 0 000000 0 0 0 0 0 0 0 0 0 0	0	0:00:00	0:00:0	2	0:06:42	0:13:25	က	0:10:21	0:31:05	-	0:12:49	0:12:49	0	0:00:00	0:00:00	9	0:09:33	_
C22 0 0:00:00 0 0:00:00 0 0 0:00:00 0 0 0:00:0	0 :	0:00:0	0:00:0	က	0:09:29	0:29:58	9	0:10:55	1:05:31	-	0:13:35	0:13:35	0	0:00:00	0:00:00	10	0:10:54	
C23 0 0:00:00 0 0:00:00 4 0 0 0:00:00 0 0 0:00:00 0 0 0:00:00 0 0:00:0	0	0:00:0	0:00:00	0	0:00:00	0:00:0	4	0:10:10	0:40:41	က	0:12:43	0:38:11	0	0:00:00	0:00:0	1	0:11:16	
C24 0 0:00:00 0:00:00 5 0 0:00:00 C25 0 0:00:00 0 0:00:00 0 0:00:00 0 0:00:00	0	0:00:0	0:00:0	4	0:10:39	0:42:36	9	0:11:31	1:09:08	-	0:13:00	0:13:00	0	0:00:0	0:00:0	-	0:11:20	
C25 0 0:00:00 0:00:00 0:00:00 0 0:00:00 0 0:00:0	0	0:00:0	0:00:0	വ	0:06:35	0:32:57	0	00:00:0	0:00:0	4	0:12:37	0:50:28	0	0:00:0	0:00:00	6	0:09:16	
C28 0 0:00:00 0:00:00 7 0 0:00:00 1 0 0:00:00 1 0 0:00:00 0 0:00:00 0 0:00:00 0 0:00:00	0	0:00:0	0:00:0	ഗ	0:10:42	0:53:33	m	0:11:01	0:33:05	က	0:13:35	0:40:47	0	0:00:00	0:00:00	1	0:11:35	
C27 0 0:00:00 0:00:00 5 0	0	0:00:00	0:00:0	7	60:90:0	0:43:08	-	0:10:06	0:10:06	0	0:12:26	0:24:53	0	0:00:00	0:00:00	C	0.07.48	
1 C28 0 0:00:00 0:00:00 2 0	0	0:00:00	0:00:0	S	0:10:13	0:51:09	8	0:11:36	0:34:48	-	0:14:04	0:14:04	0	0:00:00	0:00:00	0	0:11:06	•
	0	0:00:0	0:00:0	N	0:06:35	0:13:11	_	0:10:43	1:15:05	-	0:13:07	0:13:07	0	0:00:00	0:00:0	10	0:10:08	,
0 0:00:00 0:00:00 4 0	0	0:00:0	0:00:00	4	0:07:27	0:29:49	8	0:10:50	0:32:30	N	0:14:02	0:28:05	0	0:00:0	0:00:0	o	0:10:02	1:30:24

Terminal C3	TERMINAL	GATE	#	9 AVG	TOTAL	#	09R AVG	TOTAL	#	10L AVG	TOTAL	#	10R AVG	TOTAL	#	10 AVG	TOTAL	# AL	ALL RUNWAYS AVG TC	YS TOTAL
C33 0 000000 0 000000 4 000000 4 000000 4 000000 6 0000000 6 000000 6 000000 6 000000 6 000000 6 000000 6 000000 6 000000 6 000000 6 000000 6 000000 6 000000 6 000000 6 000000 6 000000 <th< td=""><td>Ferminal 1</td><td>ខ</td><td>0</td><td>0:00:00</td><td>0:00:0</td><td>4</td><td>0:07:59</td><td>0:31:57</td><td>ıc</td><td>0.09-11</td><td>0.45.58</td><td>-</td><td>0.11.70</td><td>0.47.45</td><td></td><td>00.00</td><td>00.00.0</td><td>Ş</td><td>-0000</td><td>0000</td></th<>	Ferminal 1	ខ	0	0:00:00	0:00:0	4	0:07:59	0:31:57	ıc	0.09-11	0.45.58	-	0.11.70	0.47.45		00.00	00.00.0	Ş	-0000	0000
C31 0	erminal 1	C30	0	0:00:0	0:00:00	4	0:06:41	0:26:47	9 4	0.10.50	0.41.20	+ 0	0.13.14	0.96.00	0 0	00:00:0	00:00:0	2 6	0:09:37	2:05:08
C32 0	erminal 1	C3-1	0	0:00:00	0:00:00	1	0:06:55	0.48:31	0	0.11.11	0.33.35	1 -	19:45	0.40.40	0 0	00:00:0	00:00:0	2 ;	0.09:27	34.35
Q4 0 000000 000000 0 000000 <td>erminal 1</td> <td>C32</td> <td>0</td> <td>0:00:0</td> <td>0:00:00</td> <td>9</td> <td>0:06:48</td> <td>0:40:49</td> <td>, -</td> <td>0.00.30</td> <td>0.00.0</td> <td></td> <td>0.19.40</td> <td>0.10.40</td> <td>5 0</td> <td>00:00:0</td> <td>00:00:0</td> <td>_</td> <td>0:08:42</td> <td>1:35:46</td>	erminal 1	C32	0	0:00:0	0:00:00	9	0:06:48	0:40:49	, -	0.00.30	0.00.0		0.19.40	0.10.40	5 0	00:00:0	00:00:0	_	0:08:42	1:35:46
OS O	erminal 1	2	0	0:00:0	0:00:00	m	0:06:19	0:18:57	4	0.08.52	0.35.30	- 4	0.11.00	0.45.00	0 0	00:00:0	0.00.00	0 ;	86:70:0	50.50
OS O	erminal 1	SS	0	0:00:0	0:00:00	00	0:08:18	1:06:26		0.00.0	0.00.0	0	0.11.40	0.55.55		00.00.0	00:00:0	- 5	00:00:0	38.50
Q7 0	erminal 1	90	0	0:00:0	0:00:00	9	0:07:09	0:42:55	LC.	0.09-23	0.46.58	1 -	10:01:0	0.43.04	0 0	00:00:0	0.00:00	2 9	00.00.0	1.23.47
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C9 C0 C0<	erminal 1	83	0	0:00:00	0.00.00	· c	0.06.49	0.00.0	ı u	0.00.50	0.40.50	0 0	0.12.13	0.30.39	0	00:00:0	00:00:0	9	0:10:43	1:04:21
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E11 0 0.000000 0.00000 0.00000 0.00000	erminal 2	E10	0 0	0.00.00	00:00:0	1 0	0.00.00	0.00.00	> (0.00.0	00:00:0	-	0:12:51	0:12:51	0	00:00:0	0:00:0	rO	0:10:07	0:50:35
E13 0	erminal 2	11.	0 0	00:00:0	00:00:0	o (0.00.0	00:00:0	٥	0:07:20	0:47:04	-	0:10:45	0:10:45	0	00:00:0	0:00:0	7	0:08:15	0:57:49
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E1 0		F14	0	0:00:0	0:00:0	7	0:07:48	0:15:36	ო	0:09:35	0:28:46	က	0:11:13	0:33:39	0	00:00:0	00:00:0	00	0:09:45	1.18:01
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E7 0 0000000 0000000 000000 000000	erminal 2	E6	0	0:00:0	0:00:0	-	0:08:34	0:08:34	က	0:00:00	0:27:19		0.11.59	0.11.59	0 0	00.00	0.00:00	o u	0.00.48	0.49.00
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E9 0 0.00000 0.00000 0.0000 0.0000	erminal 2	E8	0	0:00:0	0:00:0	-	0:08:24	0:08:24		0:08:57	0.08.57	, -	0.11.49	0.00.0	00	00:00:0	0.00.00	0 0	0.08:47	500.0
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F12 0 0.0000 0.0000 1 0.0746 0.0746 4 0.0817 0.0824 2 0.1134 0.0200 0.0000	erminal 2	F11	0		0:00:0	0	0:00:0	0:00:0	0	00:00:0	0:00:0	4	0.12-13	0.48.54	0 0		00.00.0	, ,	0.03.40	0.49.74
F14 0 0.00000 0.00000 2 0.07575 0.1553 1 0.0824 0.0824 2 0.1124 0.22509 0.00000 0.000	erminal 2	F12	0		0:00:0	-	0:07:46	0:07:46	4	0:08:15	0:33:00		0.00.00	00.00.0	0 0		00.00.0	† u	0.00.00	0.46.04
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F1C 0 0.0000 0.0000 4 0.0744 0.0003 0.00000 0.00000 0.00000	erminal 2	F18	0		0:00:0	Ŋ	0:07:49	0:39:05	c	0.08.09	0.38-54	•	0.11.10	0.44.40	0 0		00.00.0	2 9	0.00.0	20.32
F2A 0 0.00000 0.00000 24.39 7 0.06541 1 0.1127 0.1121 0.1121 0.1121 0.00000 0.00000 1 0.000000 0.00000 0.00000 0.0000	erminal 2	FI.C	0		0:00:0	4	0:07:44	0:30:59	ın	0:05:44	0.28:44	- ო	0:11:05	0:33:15	00		0.00.0	7 5	0.07.70	1.20.50
F2B 0 000000 000000 2 00745 014530 026501 3 01413 03839 0 0000000 000000 000000 000000 </td <td>erminal 2</td> <td>F2A</td> <td>0</td> <td>0:00:0</td> <td>0:00:0</td> <td>က</td> <td>0:08:13</td> <td>0:24:39</td> <td>7</td> <td>0:06:31</td> <td>0:45:41</td> <td>-</td> <td>0:11:21</td> <td>0:11:21</td> <td></td> <td></td> <td>0.00.0</td> <td>: :</td> <td>0.07.95</td> <td>1.04.44</td>	erminal 2	F2A	0	0:00:0	0:00:0	က	0:08:13	0:24:39	7	0:06:31	0:45:41	-	0:11:21	0:11:21			0.00.0	: :	0.07.95	1.04.44
F2C 0 0,00000 0,00000 3 0,00000 1,00000 0,00000	erminal 2	F2B	0	0:00:0	0:00:0	N	0:07:45	0:15:30	4	0:00:30	0:26:01	e	0:11:13	0:33:39	0	00.00	0.00.0	. 0	0.08.01	1.15.10
F2D 0 0.000000 0.00000 0.00000 0.00000	erminal 2	F2C	0	0:00:0	0:00:0	က	0:07:35	0:22:46	က	0:06:07	0:18:23	က	0:11:02	0:33:07	0	00.00	0.00.0	0	0.08.15	1.14.16
F3A 0 0.000000 0.00000 0.00000 0.00000	erminal 2	F2D	0	0:00:0	0:00:0	0	0:00:0	0:00:0	-	0:05:32	0:05:32	-	0:10:51	0:10:51	0		0.00.0	0 0	0.08-11	0.18.03
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For the control of	iminal 2	T 1	0	0:00:0	0:00:00	ເດ	0:08:26	0:42:10	4	0:06:52	0:27:30	0	0:00:0	0:00:0	0		00:00:0	6	0.07:44	1.09.40
F7 0 0:00:00 0:00:00 0:00:00 0:00:00 1 0:06:26 0:06:26 0 0:00:00 0:00:00 0:00:00 0:00:00 0:00:0	siminal 2	2	0	0:00:0	0:00:0	N	0:07:49	0:15:39	တ	0:08:28	0:25:25	0	0:00:00	0:00:0	0		0.00:00	, LC	0.08-12	0.41.04
F8 0 0:00:00 0:00:00 2 0:07:54 0:15:49 3 0:08:30 0:28:32 0 0:00:00 0:00:00 0 0:00:00 0 0:00:00 5 0 0:00:00 0 0:00:00 0 0:00:00 0:00:00 0 0:00:0	erminal 2	F7	0	0:00:0	0:00:0	0	0:00:0	0:00:0	-	0:06:26	0:06:26	0	0:00:00	0:00:0	0		00.00.0	,	0.08.98	0.08.00
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	outh Cargo	FE-10	0	0:00:0	0:00:0	0	0:00:0	0:00:0	4	0:09:16	0:37:04	0	0:00:00	0:00:00	, ,		0.00.00	n n	0.00.50	0.44.40

0.000000 0.000000 0.00000 0.00000 0.000000	TERMINAL	GATE	*	9 AVG	TOTAL	#	09R AVG	TOTAL	#	10L AVG	TOTAL	#	10R AVG	TOTAL	#	10 AVG	TOTAL	*	ALL RUNWAYS AVG TC	IWAYS G TOTAL	AL.
PEEZ 0	South Cargo	FE-11	0	0:00:0	00:00:0	C	0.00.00	00.00.0	•	00.00		,									
FE-2 0 000000 000000 0 000000 0 000000 0 0000	South Cargo	FE-2	0	00.00.0	0.00.0	0 0	00:00:0	0.00.00	4 .	0:08:43	0:34:55	0	0:00:00	0:00:0	0	0:00:0	0:00:0	4	0:08:4	3 0:34:55	25
The column The	South Cargo	FE-3		00.00.0	00:00:0	0	0.00.00	00:00	4 1	0:07:24	0:29:37	0	0:00:0	0:00:0	0	00:00:0	0:00:0	4	0:07:2		37
Characteristics Characteri	South Cargo	FF-4	0 0	00:00:0	00.00.0	,	0:00:0	00:00:0	0	0:09:01	0:42:09	0	0:00:0	0:00:0	0	0:00:0	0:00:0	10	0:60:0	_	60
G11 CORDON CORDON <td>Terminal 3</td> <td>010</td> <td>0 0</td> <td>00.00.0</td> <td>00.00.0</td> <td>- ,</td> <td>21:0:12</td> <td>21:61:0</td> <td>0</td> <td>0:00:0</td> <td>0:00:0</td> <td>0</td> <td>0:00:0</td> <td>0:00:0</td> <td>0</td> <td>0:00:0</td> <td>0:00:0</td> <td>-</td> <td>0:15:1</td> <td></td> <td>5</td>	Terminal 3	010	0 0	00.00.0	00.00.0	- ,	21:0:12	21:61:0	0	0:00:0	0:00:0	0	0:00:0	0:00:0	0	0:00:0	0:00:0	-	0:15:1		5
Colored Colo	Terminal 3	2 -	0 0		0.00:00	- 1	0:08:47	0:08:47	N	0:06:55	0:13:50	2	0:12:27	0:24:54	0	0:00:0	0:00:00	LC;	0.00.3		. 6.
G14 O 000000 O 00000 O 000000 O 00000 O 00000	Terminal 3	5 6	0 0	0.00.00	00:00:0	o i	0:08:28	0:44:55	4	0:07:19	0:29:16	N	0:12:33	0:25:06	0	0:00:0	0:00:00	+	0.00.0		1
Color	Terminal 3	21.0	0 0	00:00:0	0:00:00	9	0:08:36	0:51:39	0	0:00:0	0:00:0	0	0:00:0	0:00:0	0	0:00:0	0:00:00	. «	0.00.0		30
Color	Terminal 2	2 5	0 0	00:00:0	0:00:0	က	0:08:25	0:25:16	9	0:06:52	0:41:14	0	0:00:00	00:00:00	0	0.00.0	0.00.00	0 0	0.00.0		0 0
Color	Torminal	¥ 150	0	0:00:00	0:00:00	က	0:08:16	0:24:48	ιΩ	0:06:17	0:31:28	-	0:11:38	0.11.38	0 0	00:00:0	00:00:0	0 0	2.70.0		200
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Gillary Control Co	l erminal 3	G16	0	0:00:00	0:00:0	2	0:08:05	0:16:10	1 00	0.08-13	0.48.40	·	0.000	0.00.00	0	00:00:0	0:00:0	N	0:05:0		9
Gillary Control Co	Terminal 3	G17	0	0:00:00	0:00:00	4	0.08.45	0.35.03	0 0	0.00.13	0.10.40	- ,	0:11:33	0:11:33	0	0:00:0	0:00:00	ဖ	0:07:4:		23
Colored Colo	Terminal 3	G18	0	0:00:00	0:00:0	~	0.07.52	0.15.45	0 0	0.07.00	40.12.0	- (0:12:34	0:12:34	0	0:00:0	0:00:0	80	0:08:3		41
Columb	Terminal 3	G19	0	0:00:00	0.00.0	10	20.00.0	0.10,10	o +	0.07:23	0.52:11	N ·	0:11:19	0:22:39	0	0:00:0	0:00:00	7	0:08:3		35
G1A 0 00000 0	Terminal 3	G19A	C	0.00.00	00.00.0	10	0.00.0	4.40.00	- (0:06:46	0:06:46	-	0:12:12	0:12:12	0	0:00:0	0:00:00	4	0:60:0		12
Columb	Terminal 3	G1A	C	0.00.0	00.00.0	0 0	0.00.43	1.10.32	ν.	0:06:51	0:13:43	-	0:11:59	0:11:59	0	0:00:00	0:00:00	-	0:08:4		14
G20 0 000000	Terminal 3	G1B	C	00.00.0		4 0	0.00.0	0.00.00	4 .	0:08:44	0:34:57	N	0:13:08	0:26:17	0	0:00:0	0:00:0	00	0:10:0		050
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TERMINAL	GATE	#	9 AVG	TOTAL	#	09R AVG	TOTAL	*	10L AVG	TOTAL	#	10R AVG	TOTAL	#	10 AVG	TOTAL	*	ALL RUNWAYS AVG TC	WAYS
Terminal 3	H4	c	0.00.0	00.00.0	c	00.00	15.00	•		1									
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Torminal	2 9	0	0.00:00	0:00:00	N	0:10:38	0:21:16	4	0:09:54	0:39:39	4	0:13:56	0:55:46	0	0:00:0	0:00:0	9	0:11:40	1:56:41
Torminal	0 5	0 (0:00:00	0:00:00	-	0:10:19	0:10:19	4	0:08:27	0:33:49	4	0:13:51	0:55:24	0	0:00:0	0:00:00	0		
Herminal S	D :	0	0:00:00	0:00:0	က	0:10:17	0:30:51	0	0:08:00	0:16:01	4	0:13:43	0:54:53	0	0:00:00	0:00:00	6		
Terminal 3	n :	0	0:00:0	0:00:0	, -	0:10:36	0:10:36	ഗ	0:09:19	0:46:36	0	0:00:0	00:00:0	0	0:00:0	00:00:0	9	0:09:32	_
l erminal 5/6	M	0	0:00:0	0:00:0	N	0:12:18	0:24:37	4	0:11:47	0:47:10	-	0:15:19	0:15:19	C	0.00.0	00.00.0	1	0.10.08	
Terminal 5/6	M10	0	0:00:0	00:00:0	-	0:10:44	0:10:44	-	0:10:50	0:10:50	c	00.00.0	0.00.0	0 0	0.00.0	00.00.0	- 0	0.40.47	
Terminal 5/6	M	0	0:00:0	0:00:0	0	0:00:0	0:00:0	-	0:09:24	0.09:24	· -	0.15.45	0.15.45	0 0	0.00.0	00:00:0	4 0	0.10.47	
Terminal 5/6	M12	0	0:00:0	0:00:0	C	0:11:17	0:22:35	-	0.13.49	0.13.49	- 0	0.00.0	0.00.00	0	0.00.0	0.00.00	V	0.12.34	
Terminal 5/6	M13	0	0:00:00	00:00:0	-	0:11:50	0.11:50	- c	0.00.0	00.00.0	7	0.00.00	0.00.00	0	00:00:0	0.00.00	90	0:12:08	0:36:24
Terminal 5/6	M15	0	0:00:0	00:00:0	c	0.00.0	00.00.0	,	0.40.0	0.00.0	- +	0.00	0:13:30	, ,	00:00:0	0:00:00	N	0:13:40	
Terminal 5/6	M16	0	0:00:0	0.00.0	0 0	0.00.00	0.00.0	- c	0.00	0.00.0	- 0	00.00	0.15.39	- ,	0.14:04	0:14:04	en .	0:13:19	
Terminal 5/6	M17	0	0:00:0	00:00:0	0	0.00.0	0.00.0	·	0.74.0	0.00.00	0 0	00:00:0	0:00:0	- (0:14:55	0:14:55		0:14:55	0:14:55
Terminal 5/6	M18	C	0.00.0	0.00.00	0	00:00:0	00:00:0	- c	0.11.0	0.4.09	0	0.00.00	00:00:0	0	0:00:00	0:00:00	-	0:14:09	
Terminal 5/6	M19	0	0.00.00	00.00.0		0.11.30	0.00.00	v c	0.00.00	0.52:48	יימ	0.16:01	0:48:04	0	0:00:0	0:00:0	D.	0:14:10	1:10:52
Terminal 5/6	M2	0 0	0.00.0	00:00:0	•	0.12.00	0.10.00	0 0	00000	00:00:0		0:16:35	0:16:35	0	0:00:0	0:00:00	N	0:14:03	
Terminal 5/6	M20	0 0	0.00.0	00:00:0		0.12.00	0.12.00	0	0.00.00	00:00:0	- 1	0:15:30	0:15:30	0	0:00:00	0:00:00	CV	0:13:49	
Terminal 5/6	M21	0 0	0.00.0	00:00:0	- 0	0.00.00	0.12.14	V 1	0.12:10	0:24:20	0	0:00:0	0:00:00	0	0:00:0	0:00:0	ო	0:12:11	
Terminal 5/6	Moo	0 0	0.00.00	0.00.00	0	00:00:0	00:00:0	- 0	0:12:27	0:12:27	0	0:00:0	0:00:00	0	0:00:0	0:00:0	-	0:12:27	
Terminal 5/6	MOA	0 0	0.00.0	0.00.00	0 0	00:00:0	0:00:0	N (0:15:14	0:30:58	0	0:00:0	0:00:00	0	0:00:0	0:00:0	Ø	0:15:14	
Terminal 5/6	Mos	0 0	0.00.00	0.00:00	0	00:00:0	0:00:0	0 1	0:00:00	0:00:0	,-	0:18:00	0:18:00	0	0:00:0	0:00:0	~	0:18:00	
Terminal 5/6	M26	0 0	0.00.0	00:00:0	0	00:00:0	0:00:0	- (0:15:16	0:15:16	0	0:00:0	0:00:00	0	0:00:0	0:00:0	-	0:15:16	
Terminal 5/6	M27	0 0	00.00.0	0.00:00	0	00:00:0	00:00:0	m :	0:13:11	0:39:33	0	0:00:0	0:00:0	0	0:00:0	0:00:0	က	0:13:11	
Terminal 5/6	M28	0 0	0.00.00	0:00:0	0	00:00:0	0:00:0	m (0:13:18	0:39:55	-	0:18:41	0:18:41	0	0:00:0	0:00:00	4	0:14:39	
Terminal 5/6	MOO	0 0	00:00:0	00:00:0	0 (0:00:00	0:00:0	m	0:13:43	0:41:09	-	0:19:04	0:19:04	0	0:00:0	0:00:0	4	0:15:03	
Terminal 5/6	Mo	0 0	00:00:0	00:00:0	0 0	0:00:00	0:00:0	cu ·	0:13:10	0:26:21	0	0:00:0	0:00:0	0	0:00:0	0:00:00	8	0:13:10	0:26:21
Terminal 5/6	Mao	> 0	00.00.0	0.00:00	0	00:00:0	0:00:0		0:10:14	0:10:14	0	0:00:0	0:00:0	0	0:00:0	0:00:0	,	0:10:14	
Terminal 5/6	Mat	0 0	00.00.0	0.00.00	0	0:00:0	00:00:0	0	0:13:20	1:20:03	N	0:18:43	0:37:26	0	0:00:0	0:00:00	ω	0:14:41	
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Terminal 5/6	Maa	0 0	0.00.0	00:00:0	, 0	00:00:0	00:00:0	n 1	0:14:41	1:13:28	-	0:20:13	0:20:13	0	0:00:0	0:00:00	9	0:15:36	
Terminal 5/6	Mad	0 0	00.00	0.00.00	- ,	0.17.03	0.17:03	ומ	11:91:0	0:45:35	0	0:00:0	0:00:0	0	0:00:0	0:00:0	4	0:15:39	
Terminal 5/6	M4	0 0	0.00.00	00:00:0	- 0	0.17.32	26:71:0	<u>ه</u>	0:14:51	1:14:17	0	0:20:57	0:41:54	0	0:00:0	0:00:0	80	0:16:42	2:13:43
Terminal 5/6	MS	0 0	0.00.0	00:00:0	1 0	0.10.46	0.54.50	7	0.12.10	0.36.49	0 (0:00:00	0:00:0	0	0:00:0	0:00:0	D	0:11:57	
Terminal 5/6	M7	0 0	0.00.00	0.00.0	u -	0.11.0	0.21.32	- c	05.11.30	0:11:30	0 0	0:00:00	0:00:0	0	0:00:0	0:00:0	က	0:11:00	
Terminal 5/6	Ma	0 0	00:00:0	00:00:0	- 0	0.11.0	00.00	,	0.00.0	0.00.0	0	00:00:0	0:00:0	0	0:00:0	0:00:0	_	0:11:03	
Terminal 5/6	Me	0 0	00.00.0	00:00:0	u c	0.00.00	0.22.00	- ,	0:13:43	0:13:43	0	0:00:0	0:00:0	0	0:00:0	0:00:0	က	0:11:56	
Terminal 7	FT-1	0 0	00.00	00:00:0	o u	0.00.00	0.00.00	- 0	00:11:00	0:11:06	0	0:00:0	0:00:0	0	0:00:0	0:00:0	-	0:11:06	
Terminal 7	IET-10	0 0	00.00.0	00.00.0	0 0	0.10.40	1.40.49	> 0	0:00:0	0:00:0	0	0:00:0	0:00:00	0	0:00:0	0:00:0	9	0:16:48	
Terminal 7	IFT-11	0 0	00.00.0	0.00.00	v c	0.00.0	0:32:48	י מ	11:00:0	0:27:35	0	0:00:0	0:00:00	0	0:00:0	0:00:0	S	0:12:04	
Terminal 7	JET-12	0 0	00.00.0	00:00:0	+	0.00.00	0.00:00	- ,	0:09:24	0:09:24	0	0:00:0	0:00:00	0	0:00:0	0:00:0	-	0:09:24	
Terminal 7	JET-13	0 0	0.00.0	00.00.0	- 0	0.10.07	0.00.47	- t	0.08.58	86:80:0	0 0	0:00:00	0:00:0	0	0:00:0	0:00:0	CI	0:12:52	
Terminal 7	JET-14	0 0	0.00.00	00.00.0	o u	0.10.0	0.50.21	0 -	0.07.40	0:38:50	0 0	0:00:00	0:00:0	0	0:00:0	0:00:0	ю	0:08:38	1:09:11
Terminal 7	JET-15	0	0.00.0	0.00.0	0 00	0.00.58	2.00.0	† 0	0.07.00	0.30.32	V •	0.07:17	0.14:35	0	0:00:0	0:00:0	=	0:08:47	
Terminal 7	JET-16	0	00.00.0	0.00.0	,	0.00.00	0.53.00	> <	0.07.55	0.44:17	- 0	0.00.0	0:07:15	0	0:00:0	0:00:0	9	0:08:08	
Terminal 7	JET-19	· C	0.00.0	0.00.0	- c	00.00.0	00.00.0	+ 0	00.00	0.00.00	۰ د	00:00:0	00:00:0	0	0:00:00	0:00:0	IO.	0:08:17	0:41:27
Terminal 7	JET-2		00.00.0	0.00.00	00	0.00.00	0.00.00	0 0	00.00.0	0.00:00	- 0	41:01:0	0:10:14	0	0:00:0	0:00:0	-	0:10:14	0:10:14
Terminal 7	IET.21	0 0	00.00.0	00:00:0	4 0	00.00.0	0.00.00	۰ د	00:00:0	00:00:0	0	0:00:00	0:00:0	0	0:00:0	0:00:0	N	0:06:30	0:13:00
Terminal 7	IFT.20	0 0	00.00	0.00.00	> •	0.00.00	00:00:00	- (0:12:36	0:12:36	0	0:00:0	0:00:0	0	0:00:0	0:00:0	-	0:12:36	0:12:36
	1	>	0.00.00	0.00.00	4	0.13:03	0:13:03	>	0:00:0	0:00:0	-	0:07:57	0:07:57	0	0:00:0	0:00:0	01	0:10:30	0:21:00

TERMINAL	GATE	#	9 AVG	TOTAL	*	AVG AVG	TOTAL	#	10L AVG	TOTAL	##	10R AVG	TOTAL	#	10 AVG	TOTAL	*	ALL RUNWAYS AVG TO	IWAYS 3 TOTAL
Terminal 7	JET-3	0	0:00:00	0:00:00	ო	0:16:20	0:49:02	0	0:00:00	0.00.0	c	0.00.0	0.00.0	c	00.00.0	00.00	•		
i erminal 7	JET-31	0	0:00:0	0:00:0	9	0:06:31	0:39:11	C	0.00.0	00:00:0	0 0	00.00.0	0.00.00	0	00:00:0	00:00:0	0	0:16:20	0 0:49:02
l erminal 7	JET-34	0	0:00:00	0:00:00	2	0:09:40	0.19.21	, -	0.00.01	10000	> +	0.00.00	0.00.00	0	0:00:0	0:00:00	9	0:06:31	
Ferminal 7	JET-4	0	0:00:0	0:00:00	ເດ	0:15:43	1:18:38	· c	0.00.00	0.00.0	- 0	0.00.00	0:00:0	0 0	0:00:00	0:00:00	4	0:08:59	
Terminal 7	JET-40	0	0:00:0	0:00:0	C	0.00.0	00.00.0	,	0.00	0.000	0	0.00.0	00:00:0	0	0:00:00	0:00:00	S	0:15:43	3 1:18:38
Terminal 7	JET-41	-	0:10:43	0:10:43	o cr	0.13.97	0.00.00	- •	0.00	71:00:0	0 0	0:00:00	0:00:0	0	0:00:0	0:00:0	•	0:05:17	
Terminal 7	JET-42	-	0:11:04	0.11.04	0 0	00.00.0	0.00.00	- 0	00:00:0	00:60:0	0	0:00:0	0:00:00	0	0:00:0	0:00:0	Ŋ	0:11:13	_
Terminal 7	JET-46	0	0.00.0	00.00.0	0 0	0.00.0	0.00.00	۰ د	00:00:0	0:00:0	0	0:00:00	0:00:00	0	0:00:0	0:00:0	-	0:11:04	
Terminal 7	JET-7	-	0.08.23	0.00.0	u a	0.03.23	0.10.40	- (0:09:14	0:09:14	2	0:11:04	0:22:08	0	0:00:0	0:00:0	ເດ	0:08:25	
Terminal 7	FT-8	· c	0.00.0	0.00.00	0 1	21:70:0	0:43:15	ю і	0:11:04	1:28:37	-	0:14:18	0:14:18	0	0:00:0	0:00:00	16	0:09:32	
Terminal 7	0 TH.	0 0	0.00.00	0.00.00	0	0:07:28	0:37:24	co.	0:10:50	0:54:11	-	0:13:51	0:13:51	0	0:00:00	0:00:00	=	0.09-35	
Terminal 3	2 2	0 0	0.00:00	0:00:0	m !	0:15:37	0:46:53	က	0:07:34	0:22:42	0	0:00:0	0:00:00	0	0:00:0	0.00.0	. «	0.11.35	200.1
Torminal	2 2	> (0:00:00	0:00:0	7	0:12:37	1:28:20	N	0:10:30	0:21:01	-	0:16:00	0:16:00	0	0.00.0	00.00.0	5	0.45.00	
Torminal	012	0	0:00:00	0:00:00	N	0:10:46	0:21:32	N	0:08:40	0:17:21	es	0:14:10	0.42.32	0	0.00.0	00:00:0	1 5	0.11.07	
Torminal		0	0:00:0	0:00:0	0	0:00:0	0:00:0	0	0:00:00	0:00:0	-	0:15:05	0:15:05	0	0.00.00	0.00.00	~ •	5.00	
inilia o	N IS	0	0:00:00	0:00:0	0	0:00:0	0:00:0	-	0:08:21	0:08:21	-	0:13:51	0.13-51	0	0.00.0	00.00.0	- c	0.13.03	
Terminal 3	K13	0	0:00:00	0:00:0	ιO	0:11:39	0:58:15	8	0:09:24	0.18.49	0	0.15-11	0.45.00	0 0	00.00.0	0.00.00	N .	90:11:0	
Jerminal 3	K14	0	0:00:0	0:00:0	-	0:10:05	0:10:05	0	0.00.0	0.00.0	0 0	00.00.0	0.45.0	0 0	00:00:0	00:00:0	0	0:12:15	5 2:02:37
erminal 3	K15	0	0:00:0	0:00:0	-	0:11:53	0:11:53	0	0.10.13	90.00.0	0 0	00.00.0	0.00.00	0	0:00:0	00:00:0	-	0:10:05	
l erminal 3	K16	0	0:00:0	0:00:0	4	0:09:51	0.39.25	0	0.07.69	0.15.76	0	0.00.00	0.00.00	0	0:00:0	0:00:0	m	0:10:46	
Terminal 3	K17	0	0:00:00	0:00:0	LC.	0.11.03	0.55.10	1 0	00.00.0	0.10.10	9 0	0.13:10	0:38:50	0	0:00:0	0:00:00	0	0:10:33	
Terminal 3	K18	0	0:00:00	00:00:0	0.00	0.10.05	0.30.18	4 0	0.00.0	0.10.38	0	0:00:00	0:00:0	0	0:00:0	0:00:0	1	0:10:33	
Terminal 3	K19	0	00:00:0	0:00:0) (C	0.10.44	1.04.20	۷ د	20.00.0	0.16:05	· c	0:13:32	0:40:38	0	0:00:0	0:00:0	80	0:10:52	
Terminal 3	82	0	0:00:0	00:00:0	0	0.12.41	0.54.50	۸ د	0.00.00	0:00:00	- ,	0:14:10	0:14:10	0	0:00:0	0:00:0	7	0:11:14	
Terminal 3	K20	0	0:00:00	00:00:0	10	0.09.47	0.10.35		0.10.40	1:14:44		0:16:04	0:16:04	0	0:00:0	0:00:0	10	0:11:37	
Terminal 3	K21	0	0:00:0	00.00.0	1 0	95.01.0	0.91.50	- L	50:01:0	0:10:03	_	0:13:00	0:13:00	0	0:00:0	0:00:0	4	0:10:39	0:42:38
Terminal 3	K22	0	0:00:00	00:00:0	0 0	00:00:0	00:00:0	0 0	00.00.0	0:42:48	- 1	0:14:08	0:14:08	0	0:00:0	0:00:0	0	0:09:51	
Terminal 3	K3	0	0:00:0	0:00:00	-	0.12.52	0.10.50	o u	0.03.13	02:55:70	n (71:4:17	0:42:53	0	0:00:0	0:00:0	o	0:10:54	
Terminal 3	4	0	0:00:00	00.00.0	· c.	0.10.43	0.30.11	· ·	10.1.10	07.60	ν.	0:16:12	0:32:25	0	0:00:0	0:00:0	6	0:12:44	
Terminal 3	K 5	0	00:00:0	00.00.0	0 0	0.45.00	0.00	- c	0.1.0	01:11:0	4	0:15:59	1:03:56	0	0:00:0	0:00:0	00	0:14:08	
Terminal 3	K6A	0	0:00:0	0.00.0	J +	0.10.49	0.40.44	200	0.10.34	0:31:44	- 1	0:15:48	0:15:48	0	0:00:00	0:00:0	9	0:12:02	
Terminal 3	K6B	C	0.00.0	00.00.0	- 0	0.40.40	0.10.43	200	0:08:47	0:26:22	N	0:14:08	0:28:16	0	0:00:0	0:00:00	9	0:10:53	
Terminal 3	K	0	0.00.00	0.00.0		00.00.0	12.12.0	v •	0.08.30	21:71:0	N	0:14:03	0:28:07	0	0:00:0	0:00:0	9	0:11:06	
Terminal 3	82	0	0:00:00	0:00:00	· ·	0.00.00	1.05.22	¢ •	02:01:0	0:41:57	- 0	0.15:32	0:15:32	0	0:00:0	0:00:00	ιΩ	0:11:29	0:57:29
Terminal 3	8X	0	0.00.00	0.00.00	0 0	0.10.00	22.00.1	- ,	60:00:0	69:80:0	0	00:00:0	0:00:0	0	0:00:0	0:00:0	_	0:10:37	
Terminal 3	L10	C	0.00.0	00:00:0	Ju	0.10.40	4.00.74	- 1	0.08.54	0:09:54	N	0:15:52	0:31:44	0	0:00:0	0:00:0	rO	0:13:17	
Terminal 3	2	0 0	00.00.0	00:00:0	0 0	0.13.10	1.05:54	0	0:12:27	1:02:18	-	0:15:06	0:15:06	0	0:00:0	0:00:00	=	0:13:01	
Terminal 3	4	0 0	00.00.0	00:00:0	0 0	0.00.00	0.00.00	, 0	50:02	0:39:17	0	0:00:0	0:00:0	0	0:00:0	0:00:00	0	0:13:45	
Terminal 3	97	0	0.00.0	00.00.0	·	0.00.00	0.00.00	- ,	0:14:19	0:14:19	-	0:15:54	0:15:54	0	00:00:0	0:00:0	8	0:15:06	
Terminal 3	8	c	0.00.0	0.00.0	- 0	0.11.00	0.00.14	- 0	0:14:52	0:14:52	0	0:00:0	0:00:00	0	0:00:0	0:00:0	8	0:14:38	0:29:16
Terminal 7	BJ-1		0.00.0	00.00.0	· ·	0.11.00	0.33	200	02:11:70	0:34:20	-	0:14:18	0:14:18	0	0:00:0	0:00:0	7	0:11:41	
Terminal 7	RJ-10	0 0	0.00.0	0.00.0	- 0	0.00.04	0.00.54	0 0	0:09:41	0:58:06	-	0:08:51	0:08:51	0	0:00:00	0:00:0	0)	0:09:13	1:13:51
Terminal 7	BJ-11		00.00.0	0.00.0	1 -	0.00.40	0.17.20	01	76:80:0	0:53:44	N	0:08:30	0:17:01	0	0:00:0	0:00:0	10	0:08:48	
Terminal 7	RJ-12	C	00.00.0	00.00.0	- 0	0.00.0	0.00.07	0 .	11.60.0	0:45:56	N	0:09:58	0:19:57	0	0:00:0	0:00:0	80	0:08:56	
Terminal 7	B.1-13	0	00.00.0	00.00.0	· ·	0.00.00	0.10.38	4	0:08:42	0:34:50	0	0:00:0	0:00:0	0	0:00:0	0:00:0	7	0:07:24	
erminal 7	B.1-14	0 0	00.00.0	0.00.00	- (0.05:54	0:05:54	4	0:09:28	0:37:55	N	0:09:31	0:19:02	0	0:00:00	0:00:00	7	0:08:58	1.02.51
Terminal 7	7.1.1	0 0	0.00.00	0:00:00	٥ ۵	61.50.0	0:31:32	5	0:09:55	0:49:36	-	0:10:12	0:10:12	0	0:00:0	0:00:00	12	0:07:36	
erminal 7	2 2 2	0 0	0.00.00	0:00:0	· c	0:05:28	0:16:24	S S	0:08:25	0:42:07	N	0.09:24	0:18:48	0	00:00:0	0:00:0	-	0.07.43	1.17.10
Terminal 7	0-10 1-10	> 0	0:00:00	00:00:0	4 .	0:05:36	0:22:24	2	3:09:38	0:48:14	-	0:09:55	0:09:55	0	00:00:0	0:00:00	2 0	0.08.09	
	2	>	0.00.00	00:00:0	4	0:07:06	0:28:27	8	10:03	0:30:10	0	0:00:00	0:00:0	0	00:00:0	0:00:0	1	0:08:22	0:58:37
																		1	

TERMINAL	GATE	#	9 AVG	TOTAL	#	09R AVG	TOTAL	#	10L AVG	TOTAL	#	10R AVG	TOTAL	*	AVG	TOTAL	*	ALL RUNWAYS	TOTAL
Terminal 7	RJ-18	0	0:00:0	0:00:0	9	0:05:19	0:31:55	2	0:09:02	0:18:04	8	0:09:40	0.19.21	c	0.00.00	0.00.00	10	0.06.58	1.09.20
Terminal 7	RJ-19	0	0:00:00	0:00:0	7	0:02:09	0:36:03	Ø	0:08:41	0:17:22	+	0:09:29	0:09:29	0	0.00.00	0.00.0	2 5	0.06.17	1.00.54
Terminal 7	RJ-2	0	0:00:0	0:00:0	7	0:07:13	0:50:35	6	0:09:17	0:27:52	0	0.00.0	0.00.0	0	0.00.0	00.00.0	2 5	0.07.50	1.18.07
Terminal 7	RJ-20	0	0:00:0	0:00:0	ß	0:05:06	0:25:33	m	0:07:52	0:23:36		0:09:46	0:09:46	0 0	0.00.00	00.00.0	ο σ	0.08.30	0.58.55
Terminal 7	RJ-23	0	0:00:0	0:00:0	-	0:05:27	0:05:27	ιΩ	0:10:22	0:51:53	0	0:00:00	0:00:0	0	0:00:00	00:00:0	9	0.09:33	0.57.20
Terminal 7	RJ-24	0	0:00:0	0:00:0	4	0:05:10	0:20:40	-	0:07:38	0:07:38	0	0:00:00	0:00:0	0	0:00:00	0:00:0	ı.c	0:05:39	0:28:18
Terminal 7	RJ-25	0	0:00:0	0:00:0	9	0:04:58	0:29:51	2	0:07:41	0:15:23	0	0:00:00	0:00:0	0	0:00:00	0:00:00	00	0:05:39	0:45:14
Terminal 7	RJ-26	0	0:00:0	0:00:0	4	0:04:33	0:18:14	,	0:07:22	0:07:22	က	0:10:32	0:31:36	0	0:00:00	0:00:00	00	60:20:0	0.57:12
Terminal 7	RJ-3	0	0:00:0	0:00:0	_	0:07:55	0:55:29	4	0:09:24	0:37:36	0	0:00:00	0:00:0	0	0:00:00	0:00:0	+	0:08:27	1:33:05
Jerminal 7	RJ-4	0	0:00:0	0:00:0	N	0:11:05	0:22:10	S	0:09:15	0:46:17	0	0:00:0	0:00:0	0	0:00:00	0:00:00	7	0:09:46	1:08:27
lerminal 7	RJ-5	0	0:00:0	0:00:0	N	0:05:50	0:11:40	Ŋ	0:08:08	0:40:41	-	0:08:39	0:08:39	0	0:00:00	0:00:00	00	0:07:37	1:01:00
l erminal /	HJ-6	0	0:00:0	0:00:0	2	0:06:48	0:13:36	ß	0:10:09	0:50:48	က	0:00:0	0:27:00	0	0:00:00	0:00:00	10	0:09:08	1:31:24
l erminal 7	RJ-7	0	0:00:0	0:00:0	N	0:09:07	0:18:14	9	0:11:31	1:09:06	N	0:08:52	0:17:44	0	0:00:0	0:00:00	10	0.10.30	1.45.04
Terminal 7	RJ-8	0	0:00:0	0:00:0	4	0:06:11	0:24:47	4	0:09:17	0:37:11	N	60:60:0	0:18:18	0	0:00:00	0.00.0	0	0.08-01	1.20.16
Terminal 7	RJ-9	0	0:00:0	0:00:0	9	0:06:59	0:41:57	က	0:08:52	0:26:38	-	0:00:00	0:00:0	c	0.00.0	0.00.0	-	0.07.45	1.17.35
Terminal 4	T4-13	0	0:00:0	0:00:0	က	0:10:08	0:30:25	0	0:00:0	0:00:00	-	0:15:09	0:15:09	0	0.00.0	0.00.0	4	0.11.23	0.45.34
Terminal 4	T4-5	0	0:00:0	0:00:0	7	0:10:18	0:20:36	0	0:00:00	0:00:0	0	0:00:0	0:00:0	0	0:00:0	0:00:0	2	0:10:18	0:20:36
	ALL GATES	က	0:09:23	0:28:10	663	0:09:08	01:05:56	684	0:09:36 1	109:35:54	334	0:13:19	74:12:31	က	0:12:14	0:36:44	1687	0:10:10	285:59:15

 Table 6

 TAAM Project Name: data/projects/taamKORD_EIS_EXP33.prj

Fleet Mix and Modeled Gates

Total	9	တ	2	2	6	4	ω	6	9	4	4	N	9	Ø	-	-	1	-	rð.	က	7	Ø	9	က	က	4	-	က	9	4	7	7
Departures	က	2	-	က	9	2	က	2	ဇ	2	2	-	ဇ	-	-	-	80	-	8	-	က	-	က	•	-	2		-	က	2	က	က
Arrivals	က	4	-	8	က	2	2	4	က	7	7	•	က	•	•	•	က	•	3	2	4	-	က	2	2	7	-	2	က	2	4	4
AC Type	319	320	321	319	320	321	319	320	319	320	321	319	320	321	320	744	772	763	772	319	320	321	319	321	319	320	763	319	320	321	319	320
Gate	<u>m</u>	B1	1 8	B10	B10	B10	B11	B11	B12	B12	B12	B14	B14	B14	B16	B16	B16	B17	B17	B18	B18	B18	B19	B19	B2	B2	B2	B20	B20	B20	B21	B21
Terminal	Terminal 1	Terminal 1	Terminal 1	Terminal 1	Terminal 1	Terminal 1	Terminal 1	Terminal 1	Terminal 1	Terminal 1	Terminal 1	Terminal 1	Terminal 1	Terminal 1	Terminal 1	Terminal 1	Terminal 1	Terminal 1	Terminal 1	Terminal 1	Terminal 1	Terminal 1	Terminal 1	Terminal 1	Terminal 1	Terminal 1	Terminal 1	Terminal 1	Terminal 1	Terminal 1	Terminal 1	Terminal 1

Total	2	ι. C	4	N	4	22	2	5	9	9	4	9	ω	9	8	9	9	თ	4	4	ω	4	8	13	10	8	10	4	8	10	10	4	2	9	7	22	ဖ	7	∞
Departures	-	2	N	-	8	2	-	2	က	က	N	က	4	က	-	က	က	4	2	2	4	2	-	ဖ	ഹ	,-	2	2	_	ß	9	2	-	4	က	2	က	4	4
Arrivals	-	က	2	•	2	က	-	Ŋ	က	က	7	က	4	က	•	က	က	S	2	2	4	61	-	7	Ŋ	-	2	7	-	2	4	2	-	7	4	က	က	က	4
AC Type	321	319	320	321	319	320	321	319	320	319	320	321	319	320	321	319	320	319	320	321	319	320	321	319	320	321	319	320	321	319	320	321	319	320	321	319	320	772	319
Gate	B21	B22	B22	B22	B3	B3	B3	84	B4	B2	B5	B2	B6	B6	B6	B7	87	B8	88	B8	B3	B3	B3	Ç.	5	ပ	010	C10	C10	5	5	C11	C12	C12	C12	C15	C15	C16	C17
Terminal	Terminal 1																																						

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Gate	C17	C18	C18	C19	C19	C19	C5	C5	C5	C20	C20	C21	C21	C21	C22	C22	C22	C23	C23	C23	C24	C24	C24	C25	C25	C25	C26	C26	C26	C27	C27	C27	C28	C28	C29	C29	C29	င္ပ	కొ
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Gate	E7	E8	E3	E3	F10	F10	F11	F11	F12	F12	F14	F14	F14	F1A	F1B	F1B	F1C	F2A	F2B	F2C	F2D	F3A	F3A	F3B	F3C	F3D	F4	F5	F6	F6	F6	F7	F8	F8	F8	F9	F3	- - -	H
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Gate	GA10	GA11	GA11	GA11	GA11	GA11	GA11	GA11	GA11	GA11	GA11	GA11	GA12	GA12	GA12	GA12	GA12	GA12	GA12	GA12	GA12	GA12	GA12	GA12	GA12	GA13	GA13	GA13	GA13	GA13	GA13	GA13	GA13	GA13	GA14	GA14	GA14	GA14	GA14	
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Gate	GA14	GA2	GA2	GA2	GA3	GA4	壬	王	H10	H10	H11A	H11A	H11A	H11B	H12	H12	H13	H13	H14	H14	H15	H15	H16	H16	H17	H18	H18	오	4	H3	74	1 4	坐	94	9H	H8	28	9	윤	
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Gate	M21	M22	M22	M22	M22	M23	M24	M25	M26	M27	M28	M29	M29	M3	M3	M30	M30	M31	M31	M32	M32	M33	M33	M34	M34	M4	Ψ4	M4	M4	M4	M4	™	M5	M5	M5	M5	M7	M7	M7
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Gate	M7	M8	M8	M8	M9	M9	JET-1	JET-1	JET-10	JET-10	JET-10	JET-10	JET-11	JET-11	JET-12	JET-12	JET-12	JET-12	JET-13	JET-13	JET-13	JET-14	JET-14	JET-14	JET-15	JET-15	JET-15	JET-16	JET-16	JET-17	JET-17	JET-17	JET-19	JET-2	JET-21	JET-21	JET-22	JET-22	JFT-23	, 1
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Gate	JET-25	JET-25		JET-28	JET-29	JET-29	JET-3	JET-3	JET-31	JET-31	JET-31	JET-34	JET-34	JET-4	JET-4	JET-40	JET-41	JET-41	JET-41	JET-41	JET-41	JET-41	JET-42	JET-42	JET-42	JET-43	JET-44	JET-45	JET-45	JET-46	JET-46	JET-46	JET-7						
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Gate	JET-7	JET-8	JET-8	JET-8	JET-8	JET-8	JET-9	JET-9	JET-9	₹	K10	K10	X 11	X12	X13	4 17	K15	K15	K16	K17	K17	X18	X18	K19	22	2	K20	K21	K21	K22	K22	K3	ξ3	주 4	χ ₅	K6A	K6A	K6B	K6B	
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Gate	7	X 8	Ж 8	K9	L10	L10	2	7	L4	L4	L4	PP	P-0	L8	F8	87	RJ-1	RJ-1	RJ-1	RJ-10	RJ-10	RJ-10	RJ-11	RJ-11	RJ-12	RJ-12	RJ-12	RJ-13		RJ-13	RJ-14	RJ-14	RJ-14	RJ-15	RJ-15	RJ-16	RJ-16	RJ-16	RJ-17
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Terminal	Terminal 7	Terminal 4																	

Table 7
TAAM Project Name: data\projects\taam\KORD_EIS_EXP33.prj

DEPARTURE RUNWAY QUEUES

MAXIMUM NUMBER OF AIRCRAFT IN QUEUE

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09R	,			1	•	•	-	4	=======================================	1	4	10	15	6	9	ω	ω	9	12	10	7	2	,	•
HOUR	0	_	2	က	4	5	9	7	ω	တ	10	=	12	13	14	15	16	17	18	19	20	21	22	23
DAY	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17

ATTACHMENT D-2 TPC CONCURRENCE MEMORANDUM FOR 2018 ALTERNATIVE C TAAM EXPERIMENTS



TPC

MEMORANDUM

To: Richard Kula-FAA

CC: Mike MacMullen, Amy Hanson, Suzan McCarthy – FAA

Bill Willkie, Bill Dunlay – LFA

Bruce Jacobson, Brian Mohr, Laura Kramer—CMT

From: Chris Oswald

Date: March 30, 2004

Subject: TPC Concurrence with Final 2018 TAAM Experiments

The TPC has reviewed the final 2018 With Project TAAM experiments that were provided to the TPC by Ricondo & Associates on March 19, 2004. The purpose of this memorandum is to document that simulation comments provided to Ricondo & Associates in the TPC memorandum, "Review of TAAM Experiments for 2018 No Action and With Project Airfield and Airspace Configurations", dated February 20, 2004 (the TPC 2018 TAAM Review Memo) were addressed.

The TPC reviewed the final 2018 TAAM experiments on March 25, 2004, concurrently with the FAA Air Traffic Workgroup that participated in the initial reviews of the 2018 experiments. The FAA Air Traffic Workgroup included representatives from the Chicago O'Hare Airport Traffic Control Tower (ORD Tower), Chicago O'Hare Terminal Radar Approach Control Facility (C90), and the Chicago Air Route Traffic Control Center (ZAU).

In the review of the final TAAM runs, the TPC completed the following:

- Reviewed Ricondo & Associates' written responses to TPC and Air Traffic Workgroup comments summarized in a memorandum dated March 18, 2004. A copy of this memorandum is attached.
- Performed targeted reviews of TAAM simulation animations to verify that improvements that Ricondo & Associates had made to the model were implemented correctly.
- Reviewed TAAM results packages provided by Ricondo & Associates to verify that runway flow rates and aircraft delays were reasonable.

On the basis of this review, TPC has determined:

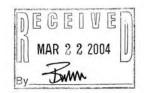
Project Files: OMP 4.41

- Ricondo & Associates has incorporated the recommended changes as requested by TPC and Air Traffic as outlined in the TPC 2018 TAAM Review Memo, dated February 20, 2004.
- Arrival and departure runway flow rates provided by the TAAM experiments for 2018 With Project are reasonable.
- Delay results appear to be internally consistent (e.g. Delays for VFR experiments were lower than IFR experiments).
- The final 2018 TAAM runs are acceptable for use in the EIS technical analysis and Ricondo & Associates should proceed with production of the final 2018 TAAM data package.

As the EIS proceeds, FAA and TPC reserve the right to modify/change any aspect of the Environmental Impact Statement to ensure an accurate portrayal of future conditions anticipated for the proposed action.

Project Files: OMP 4.41





MEMORANDUM

Date:

March 18, 2004

To:

Rich Kula, FAA

Chris Oswald, LFA

CC:

Brian Mohr, CMT

Shawn Kinder, R&A

From:

Jon Freweger, R&A

Subject:

Response to Comments - TAAM 2018 "With Project" Experiments

Enclosed for your review are the TAAM 2018 "with project" experiments. Included on the compact disc are TAAM input files for each of six experiments in UNIX format (*.tar) and the associated Summary Results Files in Adobe Acrobat format (*.pdf). Each experiment has been revised to be consistent with the comments received and agreements made during discussions on February 6, 2004, as partially documented in the Third Party Consultant's (TPC) memorandum of February 20, 2004.

The following reiterates the comments received and highlights the actions taken by City of Chicago's Consultant Team (CCT) in regard to the subject simulations. The responses are organized by general comment (GC) and by experiment, with the comments presented numerically and responses following below each in italics.

General Comments

GC-1: This comment is specific to the "no action" scenario and will be addressed in future correspondence.

GC-2: In With Project experiments; pushbacks from Taxiways M1, M2, and M3 should block Taxiway B. Due to the realignment of Taxiway A in the With Project airfield configuration, pushbacks from Gates K18 and K20 will not block Taxiway A in the With Project experiments.

For simulation purposes, the pushback stubs attached to gates M1, M2, and M3 must be left in place so that when checking to see if they can start to push back, aircraft at these gates can see a viable path and start to pushback. If these stubs are eliminated completely, the aircraft are never able to become active at the gate due to the traffic level on Taxiway B and the settings in the usage file that specify aircraft at gates always give way to aircraft on taxiways and taxilanes. To approximate the behavior of pushing back onto Taxiway B, a stop and wait taxiway rule was implemented such

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that aircraft taxiing south on Taxiway B south of the bridge stop and wait for any aircraft pushing back at gates M1, M2, and M3. Although visually, aircraft pushing back from gates M1, M2, and M3 will not pushback onto Taxiway B, aircraft on Taxiway B will behave as if they had.

GC-3: Inconsistent assumptions were used regarding the times when fly quiet arrival procedures ended in the morning. In some experiments, it appeared that fly quiet arrival procedures were "turned off" around 6:00 a.m. In other experiments, the procedures were "turned off" around 6:30 a.m. Consistent assumptions regarding cessation of fly quiet arrival procedures should be used in all experiments.

Assumptions regarding the cessation of noise abatement have been standardized across all experiments. Noise abatement departure rules end at 6:00 a.m. and noise abatement arrival rules end at 6:15 a.m.

GC-4: Aircraft pushing back from gates at the southern end of the east side of Concourse C should push back onto the UAL apron, blocking the "C-line" on the apron.

It was agreed that this issue has minor, if any, impacts on the simulation results. Moreover, it appears that the current simulation methodology does delay pushbacks to some extent, as aircraft that have pushed back wait to enter the flow of traffic transiting the UAL apron. Consequently, the TPC and CCT agreed that changes to simulation rules to address this comment would be unnecessary.

WP-1: C90 and ZAU representatives commented that arrivals that are off-loaded from high and wide STARs to "standard" STARs would need to be separated by at least 15 nautical miles in-trail in order to provide gaps in these arrival streams that could be used by departures that need to cross through these "standard" STARS.

The need for this in-trail restriction arises from the inability to assure that departures can cross (climb) over the "standard" STARS with sufficient vertical separation. These in-trial restrictions apply to arrivals from BEARZ in Parallel 27 configurations and BENKY/NEWRK in Parallel 9 configurations.

It was agreed that CCT would explore a variety of methods to incorporate these intrail separations into its With Project experiments. Through a series of tests, CCT determined that the desired in-trail separations could not be applied directly due to limitations of the model's sequencing logic. As an alternative, the CCT has limited the flow of aircraft offloaded to the "standard" STARs to achieve a similar effect to imposing 15 nautical mile in-trail separations on these STARs.

Accordingly, the number of aircraft offloading from a high-and-wide STAR to the standard STAR was limited to 10 at any given time. While separations weren't

visible in the simulation, the 10 aircraft limit approximated a flow rate corresponding to aircraft arriving 15 NM in-trail.

Experiment Comments

Experiment 33-1: Rules governing departure crossings of Runway 10C appeared to be implemented incorrectly due to a typographical error in these rules.

The typographical error in the taxiway rules has been corrected.

Experiments 33-2, 51-2, 54-6: The predominant flow through the apron should be from north to south (i.e., enter northport/exit southport). Exceptions to this rule are as follows:

- Arrivals inbound to Gates C1, C3, E10, E12, and E14 can approach their gates from southport. (Note that this means other north side Concourse E gates should approach their gates via the northport).
- Departures outbound from Gates C29, C31, B16, B17, B18, and the "banana" can taxi outbound via northport/Taxiway H.

The predominant flow through the UAL apron was set to north-to-south. Arrivals inbound to Gates C1, C3, E10, E12, and E14 were allowed to approach their gates from the south. Departures outbound from Gates C29, C31, B16, B17, B18 and the "banana" were allowed to taxi out to the north.

Experiment 51-1, 54-3: Rules governing departure crossings of Runway 10C need to be verified to ensure the typographical error from Experiment 33 has not been repeated.

Rules governing departure crossings of Runway 10C were verified to be correct.

Experiments 52-1, 53-1, 55-2: The predominant flow through the UAL apron should be from south to north to avoid the Runway 27L departure queue, which occasionally builds back on Taxiway H beyond Terminal 1. The exceptions to the south to north flow are as follows:

Departures outbound from Gates C1, C3, E10, E12, and E14 can exit the apron via southport. Arrivals inbound to Gates C29, C31, B16, B17, B18 and the "banana" can taxi to their gates via northport.

The predominant flow through the UAL apron was set to south-to-north. Departures outbound from Gates C1, C3, E10, E12, and E14 were allowed to taxi out to the

south. Arrivals inbound to Gates C29, C31, B16, B17, B18, and the "banana" were allowed to approach their gates from the north.

Experiments 52-2, 53-2: With the increase in demand associated with the 2018 schedule, the departure queue for Runway 27L was occasionally built along Taxiway H blocking access to Gates B18 through B22 on the "banana". ORD Tower representatives asked whether it would be possible to refine the stop and wait rule that has been developed to prevent the Runway 27L queue from blocking access to the UAL apron to prevent blockage of Gates B18 through B22.

In order to prevent blocking of the "banana" gates B18 through B22, the stop and wait rule was modified such that more space is required on Taxiway H between the east end of the "banana" gates and the west end of the Runway 27L departure queue before more departures are released from the hold point at Taxiway H west of Taxiway E.

Experiment 54-1: Dual high and wide tracks to Runways 9C and 10C were observed in use. Arrivals from the southwest should not use high and wide approach from KELSI to Runway 10C when high and wide approaches are being flown into Runway 9C from the northwest and southwest corners. Rather, these arrivals should offload to the more standard "close-in" STAR instead.

Offload arrivals from the southwest to Runway 10C were restricted to the more standard "close-in" STAR over NEWRK. The high and wide STAR to Runway 10C over KELSI was removed.

Experiment 54-2: Climbs of southbound Runway 10L departures out of 5,000 starts prior to reaching the BEARZ arrival track, causing these arrivals to climb into and through the BEARZ track.

Climbs of southbound Runway 10L departures crossing the BEARZ arrival track were restricted to 5,000 ft. until 10.0 NM from ORD.

Experiment 54-4: Departures from Runway 10L that use common initial departure headings were observed to depart with insufficient in-trail separations. An observed example of this phenomenon occurs at 8:04 a.m. and involves EGF1998 and EGF721D, which both depart on a common initial heading of 090. Departures that rely on common headings immediately after takeoff should be separated by 3 nautical miles, even if they diverge later.

A rule (10L_3NM_DEPSEP) was added specifying that departures from Runway 10L using the same initial heading be separated by 3.0 NM.

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Experiment 54-5: At least three pairs of double-decker landings were observed on Runway 9C during the 12:00 p.m. hour, which appeared to be a more concentrated distribution of double-decker landings than in other experiments.

CCT investigated various possible reasons for the observed behavior, but could not identify a causal factor. Corresponding, no additional action was taken.

Experiment 55-1: Air Traffic and TPC representatives request confirmation that stop-and-wait rules similar to those applied to Runway 10L departure crossings of Runway 10C have been applied to Runway 27R arrival crossings of Runway 27C.

Stop-and-wait rules similar to those applied to Runway 10L departure crossings of Runway 10C in Parallel 9s were applied to Runway 27R arrival crossings of Runway 27C.

Experiment 55-3: With the increase in demand associated with the 2018 schedule, the departure queue for Runway 27L was occasionally built along Taxiway H blocking access to Gates B18 through B22 on the "banana". ORD Tower representatives asked whether it would be possible to refine the stop and wait rule that has been developed to prevent the Runway 27L queue from blocking access to the UAL apron to prevent blockage of Gates B18 through B22.

As indicated in the response to comments 52-2 and 53-2, it is possible to revise the stop and wait rule. However, due to the reduced demand levels associated with the IFR environment there does not appear to be a compelling need to change the rule in this experiment.

Upon receipt of FAA/TPC concurrence, or other form of notice to proceed, CCT will begin production of the 2018 TAAM "with project" data package. While we anticipate production to take no more then ten (10) working days, please note that the data package cannot be completed until a decision is made by the FAA/TPC as to what the annualized weighting factors are for the 2018 runway operating configurations.

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ATTACHMENT D-3 FAA AIR TRAFFIC MEMO





Memorandum

of Transportation Federal Aviation Administration

Subject: INFORMATION: Air Traffic Assessment of TAAM

Simulations

Date:

DEC 1 6 2004

From: Air Traffic Program Manager, O'Hare

Modernization Program, AGL-503

Reply to Attn. of:

To: Barry Cooper, Manager, Chicago Area Modernization Program Office Phil Smithmeyer, Manager, Chicago Airports District Office

This letter summarizes the process the Federal Aviation Administration (FAA) Air Traffic (AT) workgroup used in the review of the TAAM (Total Airspace and Airport Modeller) simulation experiments supporting the environmental consequences analyses as part of the O'Hare Modernization Environmental Impact Statement (EIS). The EIS is utilizing the TAAM simulation program to determine delay and travel time data for aircraft operations at differing activity levels for each design year. The TAAM model produces results in both visual and tabular form for a given design year that provides the delay and travel time associated with that airport layout modeled. The reviews were coordinated within the EIS, and conducted in conjunction with the FAA's Airports Division and the FAA Third Party Contractor (TPC) as described below.

The AT workgroup was composed of both FAA Management and National Air Traffic Controllers Association (NATCA) representatives from O'Hare Tower (ORD), Chicago TRACON (C90), and Chicago Center (ZAU). The review process followed was unprecedented in scope and duration for any single airport modeling project in the US for an EIS. Together this workgroup represents more than 135 cumulative years of experience with and knowledge of the real-world air traffic operational issues in the Chicago area. They provided the operational perspective on the TAAM model's depictions of current and future operational procedures for O'Hare International Airport.

The review process began in October 2003 with review of the experimental design and operating assumptions, and continued as TAAM experiment data and simulation experiments were received from the City of Chicago Consulting Team (CCT). The FAA review process was structured to include the concurrent review of the simulation results by the FAA AT workgroup, the FAA Airports Division representative for the OMP, and the FAA TPC representative. The review process included an evaluation by the TPC of the TAAM input and output data for each design year. The AT workgroup provided the operational perspective on the TAAM simulation experiment animations relative to air traffic operational procedures that would be utilized for each design year and each

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proposed airport layout plan modeled. The review process was ongoing through July 2004.

The simulation experiment design was developed to represent various phases of the proposed airport development alternatives. The design year configurations studied were developed as part of the EIS process. Design year 2002 represents the existing airfield, or baseline. The proposed operational configurations, combined, represent those currently and projected to be used a majority of the time at ORD, in both VFR (Visual Flight Rules) and IFR (Instrument Flight Rules) conditions.

The AT workgroup reviewed operating assumptions, including airspace routings, taxi routings, runway/fix assignments, gating assumptions, and throughput numbers. There were 14 review sessions encompassing 73 simulation experiments of the following scenarios:

- 1) No Action Alternatives Design Years 2002, 2007, 2009, 2013, and 2018;
- With Project Alternatives Design Years 2007, 2009, 2013, and 2018;
- 3) Alternatives "X" and "Y" Design years 2013, 2018.

Each simulation experiment included animations that displayed the planned operation of aircraft on the airport for that design year. During each review session the AT workgroup reviewed the animations and results. Any issues or inconsistencies with the TAAM animations were discussed with the AT Program Manager for the O'Hare Modernization Program (OMP) and the Airports Division representative for the OMP, and the FAA TPC representative. Collectively, at the end of the day, all issues were discussed with the CCT, who then made appropriate modifications to the experiments and delivered the results. The AT workgroup, Airports Division representative for the OMP, and the FAA TPC representative would then reconvene and review the revised TAAM results. At the end of each review session, a memorandum was issued to the City for resolution. This process was repeated for each design year, No Action alternatives, With Project alternatives, and Alternative X and Alternative Y. During the review process, the FAA identified numerous issues of sufficient magnitude that required modifications to and a rerun of a majority of the TAAM experiments. The AT workgroup, Airports Division representative for the OMP, and the TPC representative then reconvened to review the experiments in the manner discussed above. As a final review of the accuracy of the animations, prior to the final data packages being produced by the CCT, members of this same workgroup conducted a "spot check" of the issues noted in the initial and subsequent reviews, in order to ensure that the modifications had been incorporated and were satisfactorily reflected in the TAAM experiments.

The AT workgroup review of the TAAM simulation experiments required more than 1,400 staff-hours. The majority of time was spent in detailed review of each simulation animation, in close coordination with the Airports Division representative for the OMP and the FAA TPC. As stated above, each issue raised by the AT workgroup was discussed with the Airports Division representative and the TPC and reviewed with the CCT. Based on the AT workgroup's comprehensive review, Air Traffic is satisfied that TAAM modeling simulation experiments depict a reasonable representation of how the proposed design year airport layouts would be operated, if implemented at O'Hare International Airport.

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If you have any questions, please do not hesitate to contact me at (847) 294-7574.



ATTACHMENT D-4 FAA CHICAGO AIRPORTS DISTRICT OFFICE MEMO





Memorandum

Date: December 17, 2004

Subject: Total Airspace & Airport Modeller (TAAM) Simulation Review Process Employed

For the O'Hare Modernization Environmental Impact Statement

From: Richard M. Kula

Community Planner

Chicago Airports District Office, CHI-ADO-615

To: Barry D. Cooper,

Manager, Chicago Area Modernization Program Office

Philip M. Smithmeyer,

Manager, Chicago Airports District Office

Purpose of Memorandum

This memorandum summarizes the process the Federal Aviation Administration (FAA) Airports Division utilized as the lead in the review of the Total Airspace and Airport Modeller (TAAM) simulation modeling. The TAAM modeling was used to support the environmental modeling as part of the O'Hare Modernization Environmental Impact Statement (EIS). TAAM simulation modeling was also used to determine the relative performance between the various airfield development alternatives identified through the screening process. The EIS is using output from the TAAM simulation modeling as partial input into the Noise Analysis and Air Quality analysis. This memorandum also summarizes my experience in conducting simulation studies for airports in the nation and the world.

Review Team Composition

The FAA established a team of airfield and airspace experts to review and confirm the assumptions and results of the TAAM analysis. The review team consisted of an Air Traffic workgroup, the FAA's Third Party Contractor and a representative from the Airports Division. Specifically, the team consisted of both FAA Management and National Air Traffic Controller Association (NATCA) representatives from O'Hare Tower (ORD), the Chicago Terminal Radar Approach Control Facility (TRACON), and the Chicago Center (ZAU). In addition, the FAA's Third Party Contractor and FAA Airports Division participated in all review sessions. Together the air traffic workgroup represents more than 135 cumulative years of experience with and knowledge of the real-world air traffic operational issues in the Chicago area. I was the Airports Division representative with over 12 years of computer simulation experience.

Simulation Review Process Employed

The City of Chicago (via their contractor Ricondo & Associates) developed and performed the simulation experiments required for the O'Hare Modernization EIS at the direction, oversight, review and approval of the FAA. The review process was structured to include an operational review by the Air Traffic workgroup and a technical review by the FAA's Third Party Contractor and FAA Airports

Division. In this manner, assumptions, inputs and results of each simulation experiments were reviewed as a team and any questions or issues that were raised could be investigated and documented for discussions with the actual modelers.

The review process began in October 2003 with a review of the experimental design and detailed operating assumptions for the TAAM analysis submitted by the City of Chicago. The FAA provided comments to the City and the process was underway. In response to an agreed upon schedule the City submitted sets of TAAM experiments to the FAA for review.

The review team reviewed operating assumptions (including airspace routings, taxi routes, runway/fix assignments, gating assumptions, and output numbers including throughput statistics) for four airfield development alternatives as defined through the screening process. Included in this review were the following:

- 1. No Action Alternative Do nothing.
- 2. With Project Alternative City of Chicago's proposal,
- 3. Alternative X Alternative No south east/west runway (Alternative D in the DEIS), and
- Alternative Y Alternative No south east/west runway replaced with a runway oriented in the 12/30 direction (Alternative G in the DEIS).

For environmental analysis the No Action Alternative was modeled at the 2007, 2009, 2013, and 2018 forecast activity levels. The With Project Alternative was modeled at the 2007, 2009, 2013, and 2018 forecast activity levels. Alternative X and Alternative Y were modeled at the 2013 and 2018 activity level. In addition the 2002 Baseline was modeled.

The review team assembled and reviewed simulation outputs and simulation animations for each experiment. The FAA documented comments and provided them to the City for discussion. A meeting was scheduled with the City to review each comment. It was documented how the City was going to address each comment and the City modified the specific TAAM experiment for re-submittal to the FAA along with written documentation on how each issues was approached. The FAA re-assembled the review team and performed a spot check on each specific issue that was raised during the initial (or any subsequent) review session to ensure that the issue had been addressed to the satisfaction of the review team. When the team was satisfied that each set of experiments were modeled appropriately, the FAA issued a memo to the City of Chicago concurring with each set and providing direction for the City to begin production of the detailed data packages that would be used by the Noise and Air Quality teams.

Simulation Modeling Experience for Airports Division

I have over 12 years of simulation modeling experience in conducting simulation studies for some of the busiest airports in the nation and the world. My background also includes exposure to or use of several industry standard and accepted fast time delay and travel time computer simulation models including the FAA's Airport and Airspace Model (SIMMOD), Landrum & Brown's AIRSIM & GATESIM models, the FAA's Airfield Delay Simulation Model (ADSIM), and Preston Aviation Solutions Total Airspace & Airport Modeller (TAAM). This breadth of modeling experience across several models has allowed me to evaluate all aspects of this simulation analysis in a meaningful way.

To begin with, I have significant modeling experience at Chicago O'Hare. I have been involved primarily as a technical simulation analyst or as technical project leader for every simulation project at O'Hare since 1992, with the exception of the O'Hare Master Plan Study Simulation Analysis. This includes involvement with the O'Hare Airport Layout Plan Airfield/Airspace Simulation Analysis

conducted in 1994 and 1995, the Chicago Terminal Airspace Project Simulation Analysis in 1997 and 1998, the World Gateway Program Simulation Analysis evaluated in 1999 and 2000, the O'Hare Delay Task Force Study in 2001 and 2002, and the Terminal 6 Simulation Analysis conducted in 2002. This experience at O'Hare alone has provided me a wealth of experience of all issues that the Airport currently faces along with a historical perspective on how the Airport has performed operationally for over 12 years.

As mentioned above, I have also had significant experience in simulation modeling at airports throughout the nation and the world. Since 1992 I have been involved as a technical simulation analyst or as the technical project leader for projects at Los Angeles International Airport, Detroit Metropolitan Wayne County Airport, Philadelphia International Airport, Denver International Airport, Phoenix Sky Harbor International Airport, Incheon International Airport (Seoul, Korea) and Sydney International Airport (Australia). This experience has allowed me develop a broad wealth of knowledge on not only Airport specific issues but specific industry standard modeling methodologies and processes.

Unprecedented Effort of Modeling and Review

Based on my experience with simulation modeling, I believe the process the FAA employed in this TAAM analysis is unprecedented in the scope and breadth of modeling effort and review for any simulation analysis ever conducted for any single airport. At the end of the TAAM analysis, 109 TAAM experiments were conducted in support of this EIS (73 experiments specifically for the environmental analysis and 36 experiments to support the Alternatives Chapter). The FAA AT workgroup invested approximately 1,400 hours reviewing assumptions, draft results, animations, and final results as part of the process. The FAA's Third Party Contractor invested approximately 650 hours and I alone invested approximately 600 total hours in this effort.

Conclusion

Based on my simulation modeling experience, I believe that this computer simulation modeling analysis is the most comprehensive analysis from a modeling and review level of effort perspective ever conducted to date for a single airport and produced the most reliable, and accurate representative results possible for each of the alternatives evaluated.

If you have any questions or need any additional information, please feel free to contact me.

